

9972 NORTH COAST SENSITIVE SITES

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9972.1 Introduction

9972.11 General Response Strategies For The North Coast Area

The North Coast Area includes 86 environmentally sensitive sites. Sections 9972.2 - 9972.4 contain Site Summary sheets which detail the significance of each sensitive site. Most of these sites also have individual response strategies that may be employed if the threat of oiling exists. In some cases, more than one strategy is included for a given site due to variations in a site's profile from one visit to another.

The response strategies should be taken into consideration when a particular site or group of sites is threatened by a discharge of oil. However, the strategies were developed for conditions existing on the date surveyed, conditions which may or may not be present when an actual response is deemed necessary. The conditions present when a threat of oiling exists (i.e. weather, current, tide, availability of response resources, type of product, biological resources present, type of sediment present, site accessibility, etc.) should dictate the type of response. Furthermore, the strategies presented should be considered a "last line of defense" to prevent oil from entering a specific environmentally sensitive site. Certainly, every effort to contain and recover the discharged oil while it is on the water should be made prior to employing the exclusionary booming measures that many of the strategies call for.

Although each environmentally sensitive site has a unique set of characteristics, the vast majority of North Coast sites fall into three broad categories: Offshore Rocks/Rocky Headlands/Pocket Coves, Tidal Inlets (creeks and rivers), and Beaches. Below are general strategies for these three site categories.

Offshore Rocks/Rocky Headlands/Pocket Coves

Sites of this nature are generally accompanied by high wave energy, which drastically reduces the effectiveness of existing spill response technology. Furthermore, these sites are often very difficult and dangerous to access via land or water due to heavy surf, submerged rocks, sheer cliffs and lack of roads to the area. As a result, response options are very limited, which underscores the importance of recovering the oil on-water if at all possible.

Although high wave energy in the vicinity of offshore rocks and rocky headlands hinders the deployment and clean-up capabilities of response equipment, it is effective at breaking up oil and providing a continuous washing of oiled surfaces. Therefore, it may be appropriate not to respond to these sites. Response may be more feasible in the pocket coves that are prevalent among the rocky headlands of the North Coast, since they are often sheltered from the high wave energy.

Tidal Inlets (creeks and rivers)

The majority of North Coast tidal inlet sites currently have one or more response strategies. Because these tidal inlets undergo significant physical changes throughout the year (i.e. varying flow rates, location of mouth, gradient of inlet, sediments present, tidal cycles, etc.), the strategies provided may not be the best response to a particular incident. Therefore, the following general strategies have been provided to aid in developing an appropriate response for various types of conditions.

Many of the North Coast tidal inlets are small creeks that may easily be diked to prevent oil from entering on an incoming tide. This may be done manually or with heavy equipment (front-end loader or bulldozer) provided the site has both the proper type of sediment (fine to medium grained sand) and a sufficient amount to accomplish the task. Inlets with relatively steep gradients may not need to be diked, as long as the creek maintains flow to the sea (including on an incoming tide).

The rate of flow of the inlet must also be taken into consideration when diking. If the flow is too great to effectively dike the creek, throughflow culverts placed within the base of the dike may allow an adequate amount of water to pass to keep the dike intact. These throughflow culverts must be placed below the surface of the water to prevent oil from passing through the dike.

Many North Coast creeks and rivers naturally dike themselves during the summer months, creating a lagoon shoreward of the natural dike. Although this natural dike limits interaction with the sea, large waves or high tides often allow seawater to wash over the natural dike.

To prevent oil from entering the lagoon via large waves or high tides, a berm could be developed to heighten the highest portion of the natural dike. As with construction of sediment dikes, feasibility of the berm may depend on the type and amount of sediment available at the site. Furthermore, construction of such a system generally requires the use of large machinery (front-end loaders or bulldozers). Use of a berm may be dependent on the ability of heavy machinery to access the particular site.

There are a number of tidal inlets in the North Coast that are either too wide, too deep, or flow too rapidly to consider diking (even with throughflow culverts). Effective use of boom and skimming systems must be used at these sites to prevent oiling. However, swift currents and entrainment of oil will often prevent exclusionary booming from being a practical solution. Instead, deflection boom should be placed to force the oil to a catchment site (fine to medium-grained sand beach is best) for recovery of the oil. Another option is placing the deflection boom along both sides of the inlet to deflect the oil to a skimmer located at the apex of the two lengths of boom. Again, this will be dependent on the resources available and the conditions present at the site at the given time.

Beaches

These sites are often accompanied by surf, which drastically reduces the effectiveness of existing response technology. As such, booming and skimming will generally not be feasible at these sites. Therefore, the use of a berm should be considered.

Prior to developing a berm, most beaches will need to be pre-cleaned in order to prevent oiling (and the subsequent need to dispose) vast amounts of beach debris (i.e. driftwood and kelp). On cobble beaches, though, pre-cleaning should be weighed against the effects of oil penetration. In some instances, kelp strewn along this type of beach could prevent oil from penetrating the surface, thereby reducing the severity of impact on the site.

The development of a berm generally requires the use of front-end loaders or bulldozers. Heavy equipment access to the site is key. In addition, the type and quantity of sediment available is very important. Fine to medium-grained sand is best for berm construction.

Oil collected along the base of the berm may be recovered using sorbent materials.

9972.12 Summary Tables

The following three tables are brief summaries of the extensive information to be found in the 86 individual site summaries for sites considered environmentally sensitive. The first table is a North to South listing of North Coast sites and includes locational information, a description of the sites physical environment, natural resources at risk, response consideration ranking, and a suggested response strategy.

The second table, Index to Response Categories, is seen primarily as a planning document. It ranks North Coast sites according to certain criteria that should be useful in setting response priorities and in determining appropriate responses. This table, and the first one, will become part of a North Coast Geographic Response Plan to be developed.

The last table is a listing of culverts and tide gates that could provide a pathway for spilled oil to travel from impacted waterways to other sensitive areas. Responders should be aware that these devices exist and be prepared to close them in some manner to the further spread of contaminants, especially in the lowlands surrounding Humboldt Bay.

A Humboldt Bay Geographic Response Plan can be found on pages 85 to 128. This plan can be removed in it's entirety during responses on Humboldt Bay and copied for use by responders in the field.

9972.13 INDEX TO RESPONSE CATEGORIES **ENVIRONMENTALLY SENSITIVE AREAS - NORTHCOAST AREA CONTINGENCY PLAN**

Response category 1	Response category 2	Response category 3	Response category 4	Response category 5	Response category 6	Response category 7
Easily accessed site	Easily accessed site	Difficult access	Difficult access	Habitat damage could result from INTRUSIVE RESPONSE NOT NECESSARY	Site where immediate response is probably Minimal damage would occur, but this does not	Conventional response is not realistic based on current technology
Close to pre-staged equipment	Distant (20+ mi) from pre-staged equipment	Close to pre-staged equipment	Distant (20+ mi) from pre-staged equipment	Trustee recommend against on site response		• Extreme currents • High energy shoreline preclude need to

clean • Offshore rocks

after impacts

Site Name	Site Name	Site Name	Site Name	Site Name	Site Name	Site Name
09 Elk Creek P	02 Mo. Smith R. P,H	32 Mad River P,H	05 Lk Towala In. P,H	08 Castle Rock.....N	01 OR-Pyramid Pt N	06 SW Seal Rk N
30 Little River P,H	15 Wilson Cr. P	35 N. Humboldt Bay P	22 Redwood Cr. P,H	59 Jackass Creek..H	03 S. Spit Smith R. N	07 Pt. St. George N
34 Hum Bay inlet P	16 Klamath R. P,H	Jacoby Creek P,H	23 Stone Lagoon P,H	60 Little Jackass Creek N	04 Lk Tolowa Beach N	10 Battery Point N
& Samoa penin. P	28 Trinidad Bay N	Freshwater Sl. P,H	24 Dry Lagoon N	19 Gold Bluffs B. N	11 Del Norte Coast	
37 Palco Marsh P	53 Mattole Riv. P,H	36 Mad R. Slough P,H	26 Big Lagoon P,H	31 Clam Beach N	Rwds St. Pk N	
38 Elk River P	66 Union Landing N	40 S. Humboldt Bay	48 Bear River N	41 S. Spit Hum Bay N	12 Scat Beach N	
71 Mill Creek P	68 Kibesellah Hill N	White Slough P	54 Cooksie Creek N	46 Centerville Beach N	13 Last Chance Rk N	
73 Virgin Creek N	69 Ten Mi. River P,H	Hookton Slough P	56 Shelter Cove N		14 Foot Step Rocks	
74 Pudding Cr. P	87 Big Salmon Cr P	Salmon Creek P	61 Usal Creek H		to Radar Rks N	
76 Noyo Harbor P	88 Naverro Riv. P,H	42 Eel River P	64 Rockport Bay &		18 Flint /White Rks N	
79 Casper/Doyle Cr P	92 Irish Gulch N	77 S. Fort Bragg P	Cotteneva Crk P		20 Redding Rock N	
80 Pt. Cabrillo to P	93 Alder Creek P	85 Dark Gulch N	65 Hardy Creek P		27 Patrick Pt. to	
J. Peters Gulch P	94 Point Arena N		70 Inglenook &		Trinidad Head N	
82 Big River P			Sand Hill Lake		47 False Cape Rk N	
83 Mendocino Bay N			Creeks P,H		49 Cape MendocinoN	
84 Van Damme			89 Greenwood Cr.		50 Steamboat Rk N	
State Park/			to Cuffeys Cove P		51 Capetown N	
Little River P			91 Elk Creek P		52 Hair Seal Rk N	
86 Albion River P			95 Garcia River P,H		55 Shubrick Peak N	
					57 Morgan Rock N	
					58 Seal Rocks N	
					62 Shoreline Rk N	
					63 Soldier Frank Pt N	
					67 Westport N	
					72 Laguna Pt. N	
					75 Soldier Pt. N	
					78 Casper Pt. N	
					81 Mendocino	
					Headland N	
					90 Bonee Gulch N	

P = Planned response & equipment list. See Site Summary. For tidal inlets also see “Coastal Inlet Protection Strategies for Oil Spill Response”,

Vol III, N. Coast Planning Area by Miles Hayes/Todd Montello

N = No recommended response

H = Helicopter support may be appropriate. See the Aviation support for Marine Environmental Protection section.

9972.15 Summary of Environmentally Sensitive Areas - Listed in N-S order

Site #	Site name	Response Category	Location	Habitat	Concerns	Strategy
NC-001-A	Oregon border to Pyramid Pt.	6	N. of Crescent City	Beach F-MG	Birds Archeo	No Planned Response (NPR)
NC-002-A	Mouth of Smith River	2	N. of Crescent City	Tidal inlet Beach M-CG	T&E Birds Fish Marine mammals Rec'l fishing	Recover oil by diverting w boom to skimmers Contain oil. Keep from being carried upriver to areas of marsh
NC-003-C	South Spit Smith River	6	N. of Crescent City	Beach F-MG	Fish	NPR
NC-004-A	Lake Tolowa Beach	6	N. of Crescent City	Beach F-MG	T&E Birds	NPR
NC-005-A	Lake Tolowa Inlet	4	N. of Crescent City	Tidal inlet	T&E Birds Fish Archeo	Sediment dike
NC-006-A	Southwest Seal Rock	7-0	Offshore rock in St. George Reef	Offshore rock	T&E Marine mammals	NPR
NC-007-A	Point St. George	7	Headland just N. of Crescent City	Offshore rock Rocky headland Wave-cut platforms Gravel beach	T&E Birds	NPR
NC-008-A	Castle Rock Natl Wildlife Refuge	5-0	Close to shore isl. N. of Crescent City	Offshore rock	T&E Birds Marine Mammals	USFWS requests no response be done on island
NC-009-A	Elk Creek & Crescent City Harbor	1	Boat Harbor Small creek	Tidal flat limited fringe marsh Riprap Sandy beach Developed harbor	T&E Birds Fish Marine mammals Structures Aquaculture Rec'l/comm Fishing	Collect oil w boom towed by paired boats w skimmer at apex. Or skimmer on harbor dist barge - paired boats deliver to skimmer. Protect inner harbor/aquaculture with boom. Build sediment dike at Mill Creek
NC-010-A	Battery Point	7	N. side Crescent City	Coarse Sediments Offshore rocks	T&E Birds Marine mammals Kelp beds Archeo	NPR
NC-011-A	Del Norte Coast Redwoods State Park	7-NLA	S. of Crescent City	Offshore rocks & rocky headlands fm Enderts Beach to Damnation Creek	T&E Birds Archao	NPR
NC-012-B	Scat Beach	7-NLA	Del Norte Coast Rwd St. Park	Seawall & offshore rocks	marine mammals	NPR
Site #	Site name	Response Category	Location	Habitat	Concerns	Strategy

Category

NC-013-C	Last Chance Rock	7-0	Del Norte Coast Rwds St. Park	Offshore rocks	T&E Birds	NPR
NC-014-A	Footstep Rocks to Radar Sta. Rocks	7-NLA	Redwood Natl. Park	Offshore rocks Rocky headland Gravel beaches Tidal inlet	T&E Birds marine mammals Archao	NPR
NC-015-A	Wilson Creek & Lagoon Creek	2	Redwood Natl Park	Beach C-granul Extensive log debris near lagoon mouth	T&E Birds Fish marine mammals	Preclean. Build sediment dikes w flowthrough device backed by sorbent booms at Lagoon Creek. Enhance berm to prevent washover. Steep Wilson Creek should prevent oiling.
NC-016-B	Klamath River Mouth & Estuary	2	N. of Prarie Creek State Park	Beach F-MG Mouth migrates between N & S banks year to year	T&E Birds marine mammals rec'l/comm fish Archeo	Collect oil w boom trawled by paired boats. Deliver collected oil to skimmer. Protect wetlands on s. side w boom Use sorbent booms on river side of spit to get washover oil
NC-018-B	Flint Rock & White Rock	7-NLA	S. of Klamath River	Flint - Rocky cliffs & headland White - offshore rock	T&E Birds Archao	NPR
NC-019-C	Gold Bluffs Beach	6	Prarie Creek State Park	Beach - F-MG	Fish Comm fishing Archao	Preclean Enhance berm if washover likely
NC-020-A	Redding Rock	7-0	5 mi off Gold Bluffs Beach	Offshore rock	T&E Birds marine mammals Rec'l fishing	NPR
NC-022-A	Redwood Creek	4	Just S. of Orick	Estuary & sandy beach. Freshwater marsh. Riprapped banks	T&E Birds Fish Rec'l fishing	Dike or boom sloughs. Back boom with sorbants. Deflect fm riprap to N creek arm & skim during flood
NC-023-A	Stone Lagoon	4	Stone Lagoon State Park	Lagoon w freshwater marsh Beach F-MG May open to ocean	T&E Birds Fish marine mammals Rec'l fishing	boom to contain oil in lagoon build berm to prevent washover If lagoon breached build dike & boom to direct oil in lagoon to N spit. Collect w boom in "V" behind skiffs.
NC-024-A	Dry Lagoon State Beach	4	Dry Lagoon State Beach	Beach CG-granule fresh & saltwater marshes	T&E Birds Fish	Enhance berm if washover likely
NC-026-A	Big Lagoon	4	Humboldt County Park	Beach F-granule fresh & saltwater marshes	T&E Birds fish rec'l fishing rec'l watersports	Collect oil entering lagoon w boom towed by paired skiffs. raise berm if overwashing, back w sorbants. Sediment dike not feasible due to tidal volumeArcheo
Site #	Site name	Response Category	Location	Habitat	Concerns	Strategy

NC-027-A	Patrick's Point to Trinidad	7	NW of Trinidad	Wave-cut platforms gravel beach rock cliffs offshore rocks	T&E Birds marine mammals fish archaeo	NPR
NC-028-A	Trinidad Bay & McConnahas Mill Creek	2	SW of Trinidad	Tidal inlet Offshore rocks rocky headlands Beach F-MG w some gravel	T&E Birds marine mammals Fish rec'l/comm fish	McConnahas Mill Creek not likely to be oiled due to steep gradient Trinidad Bay: on water skimming by VOSS, with paired boats towing boom Response may not be possible in winter or S winds
NC-030-A	Little River Beach	1	S of Trinidad	tidal inlet tidal flat Beach F-MG	T&E Birds Fish Marsh	build dike w subsurface flow-thru device. Back w sorbant boom. Divert to collection site inside river if dike not possible
NC-031-B	Clam Beach	6	Clam Beach Co. Park	Beach F-MG small tidal inlets	Fish invertebrates Rec'l clamming	NPR
NC-032-A	Mad River	3	Mad River Co. Park	Lg. tidal inlet Beach F-MG Riprap	T&E Birds marine mammals invertebrates Rec'l fishing	Boom riprap. Collect oil on N & E sides of mouth. Pump recovered oil to tank on E bank. use sorbants for entrained oil
NC-34-A	Humboldt Bay Inlet & Samoa Peninsula	1	Humboldt Bay	Stabilized inlet Mudflats w. eelgrass beds Beach F-MG w some dunes	T&E Birds Fish Plants Mariculture Comm/rec fish Archeo	Multiple techniques: see Spill Response Strategy for this site.
NC-35-A	North Humboldt Bay	3	Humboldt Bay	Estuary. Salt & freshwater marshes, tidal flats, eelgrass beds creeks, inlet	Birds marine mammals fish invertebrates mariculture rec'l fishing archaeo	Multiple techniques: see Spill Response Strategy for this site
NC-036-A	Mad River Slough	3	N. end Humboldt Bay	Tidal estuary inletting to Humboldt Bay Marsh, tidal flats eelgrass beds	T&E Birds Fish marine mammals plants mariculture Rec'l fishing	Place booms (ITB, hbr, sorbant) across slough entrance to Hum. Back w sorbants & skim if req.
NC-37-A	Palco Marsh	1	Eureka	Saltwater marsh eelgrass beds tidal flats	Birds fish	Block culvert (inverted siphon) leading to marsh from bay. Close Del Norte St. tide gate. Place sorbents n. end culvert.

Site #	Site name	Response Category	Location	Habitat	Concerns	Strategy
NC-038-A	Elk River	1	Eureka	Tidal inlet tidal flats eelgrass beds marsh. F-MG sandspit	T&E birds fish rec'l fishing	Close tide gates at Elk R. marsh preclean debris at foot of Hilfiker St. Boom river mouth. Back w. sorbant boom. Possible oil recovery site.
NC-040-A	South Humboldt Bay	3	S. of Eureka	Lg estuary marshes, eelgrass tidal flats USFWS refuge	T&E birds fish plants marine mammals invertebrates rec'l fishing mariculture archao	See NC-034-A above. Entrance to S. Bay is part of the inlet.
NC-041-A	South Spit	6	NW of Loleta	Beach F-MG vegetated dunes	T&E birds	NPR
NC-042-A	Eel River	3	W of Loleta	Lg. estuary, marshes, tidal flats, sloughs river mouth may migrate 1.5 mi	T&E birds fish marine mammals rec'l fishing	Preclean estuary beaches. Boom sloughs inletting to estuary If sea/outflow allows, boom mouth back w sorbant boom. Recover oil w paired skiffs towing boom
NC-046-A	Centerville Beach	6	W. of Ferndale	Sandy beach	T&E birds plants fish	NPR
NC-047-A	False Cape Rock	7-0	Lost Coast SW of Ferndale	Offshore rocks	Birds marine mammals	NPR
NC-048-B	Bear River	4	Lost Coast SW of Ferndale	Seasonal tidal inlet	T&E (no access) birds fish	NPR
NC-049-A	Cape Mendocino	7	Lost Coast SW of Ferndale	Offshore rocks	T&E birds marine mammals	NPR
NC-050-A	Steamboat Rock	7-0	Lost Coast SW. of Ferndale	Offshore rocks	Birds	NPR
NC-051-C	Capetown	7-NLA	Lost Coast SW of Ferndale	Tidal flats	Birds (no access)	NPR - BLM is trustee
NC-052-B	Hair Seal Rock	7-NLA	Lost Coast NW of Petrolia	Offshore rocks	Birds marine mammals	NPR
NC-053-A	Mattole River	2	Lost Coast W. of Petrolia	Complex tidal estuary. granular open to ocean	T&E birds beach may be rec'l fishing	Preclean. Dike if flows low. Enhance berm to prevent fish washover. Boom to divert & recover oil entering river BLM is trustee

Site #	Site name	Response Category	Location	Habitat	Concerns	Strategy
NC-054-A	Cooskie Creek	4	Lost Coast S. of Punta Gorda	Wave-cut platforms Mixed sand & gravel beaches	T&E birds fish marine mammals	NPR
NC-055-C	Shubrick Peak	7-NLA	Lost Coast S. of Mattole	Tidal flat, wave cut platform	Birds	NPR
NC-056-A	Shelter Cove & Cormorant Hotel	4	W. of Redway at end Shelter Cove Rd.	Rocky headlands	Birds comm/rec fishing small harbor/pier	Use paired boats to trawl boom. Place Skimmer in apex.
NC-057-C	Morgan Rock	7-0	Sinkyone Wilderness State Park	Offshore Rock	marine mammals	NPR
NC-058-B	Seal Rocks	7-0	Sinkyone Wilderness State Park	Offshore rock	marine mammals	NPR
NC-059-A	Jackass Creek	5-NLA	Sinkyone Wilderness State Park	Tidal inlet, CG sand & granules	T&E birds plants marine mammals archeo	NPR
NC-060-B	Little Jackass	5-NLA	Sinkyone Wilderness State Park	Small tidal inlet beach CG-gravel	marine mammals	NPR
NC-061-A	Usal Creek	4	Sinkyone Wilderness State Park	Estuary. Beach CG, granules pebbles	T&E birds fish marine mammals archaeo	NPR
NC-062-A	Shoreline Rock	7-0	Sinkyone Wilderness State Park	Nearshore rock Nearest beaches of coarse sediments	Birds	NPR
NC-063-A	Soldier Frank Point	7-NLA	2 mi N of Cape Vizcaino	Rock cliffs, sea wall	Birds	NPR
NC-064-A	Rockport Bay & Cottaneva Creek Inlet	4	Rockport	Mixed sand/gravel beach, Wetland	T&E Birds	If low flow, dike creek & enhance berm to prevent overwash. If ponded, enhance berm & dike upstream.
NC-065-A	Hardy Creek	4	Off Hwy 1	Creek w mixed sand/gravel beach bluff, marsh	Birds	If, dike or boom creek mouth to prevent oiling fringing marsh.
NC-066-A	Union Landing	2	Off Hwy 1	Offshore rocks bluffs, inlets to 4 small creeks	T&E birds fish	Multiple techniques: see Spill Response Strategy for this site.
NC-067-A	Westport	7	Westport	Offshore rocks bluffs	Birds	NPR

Site #	Site name	Response Category	Location	Habitat	Concerns	Strategy
NC-068-A	Kibesillah Hill	2	Just N. of Ten Mi. River	Rocky bluffs, F-MG tidal inlets to 4 small creeks marsh, cliffs, seawalls, wave cut platforms	T&E birds	Multiple techniques: see Spill Response Strategy for this site
NC-069-A	Ten Mile River	2	McKerricher State Park	Tidal river crosses sandy beach. bedrock scarp marsh	T&E birds	Preclean beach at river mouth. If low flows, dike river. Back dike w harbor & sorbent booms.
NC-070-B	Inglenook Creek Sandhill Lake Creek	4	McKerricher State Park	Wide sand beach vegetated dunes 2 seasonal creeks & marsh	T&E plants birds insects	Close creeks w sediment dike, sandbags or boom
NC-071-A	McKerricher State Park - Mill Creek	1	McKerricher State Park	Seasonal tidal inlet Beach M-CG rocky scarp	T&E plants birds fish archaeo	Preclean. Close floodgate to lake Dike creek mouth.
NC-072-B	McKerricher State Park - Laguna Point	7	McKerricher State Park	Rocky headland wave-cut platfrms intertidal sea-stacks	Birds Marine mammals	NPR
NC-073-B	Virgin Creek	1	McKerricher State Park	Seasonal tidal inlet MG beach bedrock outcrop	T&E birds archaeo	Possible dike or sandbags to close creek mouth. Protect T&E from responder's traffic.
NC-074-B	Pudding Creek	1	McKerricher State Park	Seasonal tidal inlet. Wide sand beach, marsh wave cut platfrms intertidal seastacks	T&E fish birds wooden bridge archeo	Dike creek mouth near old log haul road trestle
NC-075-A	Soldier Point	7	Fort Bragg	wave cut platfrms bedrock outcrops seastacks, pocket beaches, riprap	marine plants birds marine mammals invertebrates archeo	NPR
NC-076-A	Noyo Harbor Entrance & Dolphin Cove	1	Fort Bragg	Stabilized river inlet & beach	T&E birds fish invertebrates piers & pilings comm/rec fishing comm/rec harbor	Multiple techniques: see Spill Response Strategy for this site.
NC-077-B	South Fort Bragg	3	Fort Bragg	4 seasonal tidal inlets, coastal bluffs, MG beaches	Birds archaeo	Multiple techniques: see Spill Response Strategy for this site.
NC-078-B	Caspar Point	7	Below Caspar	Steep rocky headlands offshore rocks	Birds	NPR

Site #	Site name	Response Category	Location	Habitat	Concerns	Strategy
NC-079-A	Caspar Creek & Doyle Creek	1	S. of Fort Bragg	Creeks, bedrock bluffs, MG beaches, lagoon, marshes riprap	Birds fish	Multiple techniques: see Spill Response Strategy for this site.
NC-080-A	Point Cabrillo to Jack Peter's	1	S. of Fort Bragg	Bedrock outcrops wave-cut platfrms surge channels pocket coves gravel beaches creek/MG beach	T&E insects birds marine mammals fish invertebrates	NPR. Clean up following oil impact may be only possible response
NC-081-B	Menocino Headlands State Park	7	Mendocino State Park	Rocky bluffs seastacks offshore rocks surge channels	Birds	NPR
NC-082-A	Big River	1	Mendocino State Park	Tidal inlet, marsh	T&E birds	Paired boats towing boom in Mendocino Bay. Use boom to divert to catchment area inside river. Protective booming around vegetation in river.
NC-083-A	Mendocino Bay	1	Mendocino	Bay, offshore rocks	Birds marine mammals	NPR
NC-084-A	Van Damme State Beach Inlet & Little River	1	3 mi S of Mendocino State Park	River flows over M-CG beach offshore rocks small bay	T&E birds fish	On-water recovery of oil essential use boom backed w sorbant boom to protect narrow beach & stream
NC-085-B	Dark Gulch	3	N. of Albion State Park	Coastal stream cobbled beach bedrock headland offshore rocks seastacks	T&E birds	Sorbent pompoms. on-water recovery w small skiffs
NC-086-A	Albion River	1	Albion State Park	Navigable Tidal inlet, offshore rocks, seawalls rocky bluffs	T&E birds fish marine plants	Boom off surfgrass. Divert oil in river mouth to skimmers. Use vacuum trucks to recover skimmed oil
NC-087-A	Salmon Point & Big Salmon Creek	2	S of Albion	Rocky bluffs offshore rocks tidal inlet, marsh F-MG beach	T&E birds fish houses on creek	Boom off intertidal area Use skiffs to recover oil. Use boom to deflect oil from vegetation & onto N side creek for recovery w vacuum trucks
NC-088-A	Navarro River	2	State Park	Tidal inlet, marsh	T&E birds	Preclean. If low flows dike river. Enhance berm to prevent overwash into lagoon. Boom behind berm to prevent spread into large estuary.
NC-089-A	Greenwood Creek to Cuffey's Cove	4	State Park	Rocky headlands offshore rocks seasonal inlet	T&E fish birds marine mammals	Preclean. If low flows dike creek. Back w. sorbent booms. Enhance berm to prevent overwash. Large 'Tombolo' will cause oil to collect at this site, as it does debris

Site #	Site name	Response	Location	Habitat	Concerns	Strategy
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Category

NC-090-A	Bonee Gulch	7-NLA	S of Elk (no access)	Rocky bluffs	Birds	NPR
NC-091-A	Elk Creek	4	Pvt land near State Park	Tidal inlet extensive marsh	T&E fish birds	Preclean. If low flow, dike mouth enhance berm, boom estuary. Protect marsh. Use pompoms or filter fence on beach.
NC-092-A	Irish Gulch	2	Irish Gulch Vacation Rentals	Seasonal inlet	Birds	Dike small creek. Use pompoms or filter fence to protect debris. Due to large size of debris, precleaning not option.
NC-093-B	Alder Creek	2	State Park	Seasonal inlet marsh	T&E Birds fish	Preclean. If low flow, dike creek. enhance berm. Boom estuary protect marsh
NC-094-B	Point Arena	2	State Park (no access)	Rocky headland offshore rocks	Birds	NPR
NC-095-A	Garcia River	4	N. Side of Point Arena	Tidal inlet to Garcia R., seasonal inlets to Brush Crk, Hunters Lagoon. beach F-CG	T&E birds fish	Preclean. If low flow, dike creek enhance berm. Otherwise, diversion boom to collect & skim oil in river

9972.2 Del Norte County Environmentally Sensitive Sites

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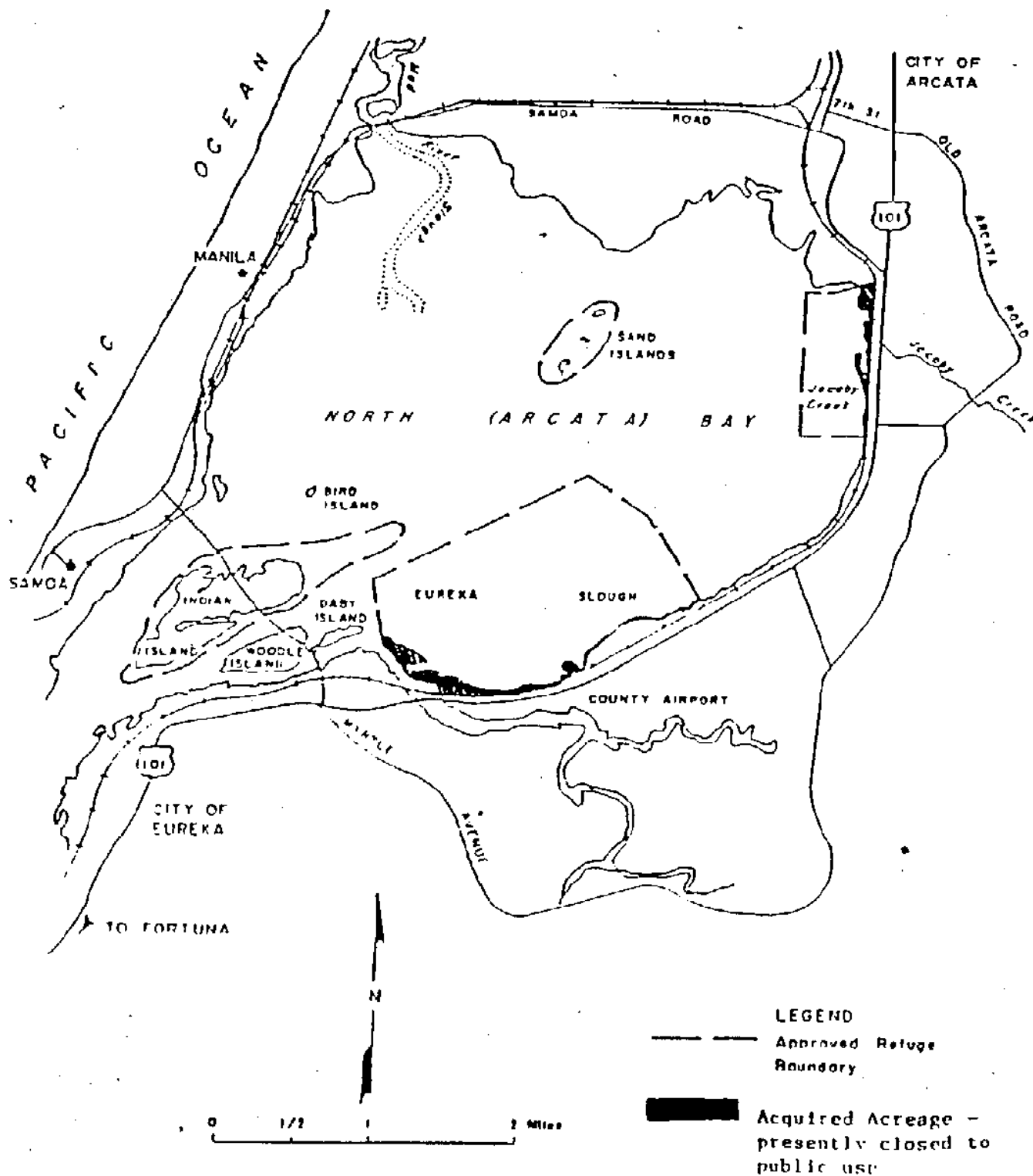


FIGURE 16. HUMBOLDT BAY NATIONAL WILDLIFE REFUGE - NORTH BAY - INDIAN ISLAND, SAND ISLANDS, JACOBY CREEK AND

SITE SUMMARY SHEET

SITE: NC-001-A Oregon Border/Pyramid Pt

OSPR Map #: 001

County: Del Norte

USGS 7.5' Quad: Smith River

NOAA Chart: 18602

07/01/96

Lat: 41 58' N

Long: 124 13' W

Rev:

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Go N. on U.S. Hwy 101 through Crescent City. U.S. hwy 101 parallels the shoreline and access is generally obvious. 'Mouth of the Smith River' Road MP 43.17 accesses Pyramid Point. North Indian Road, follows the coastline north of Pyramid Point, and is the closest access to Prince Island.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Predominantly fine to medium grained sand beaches. Area also includes wave-cut platforms, exposed rocky headlands and offshore rocks, especially in the vicinity of Pyramid Point.

Response Category 6. Site where immediate response is probably not necessary. Minimal damage would occur, but this does not preclude the need to clean after impacts.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird rookeries (03-09): Pelagic Cormorant, Western Gull, Pigeon Guillemot. Tufted Puffins(CSC). Prince Island: Snowy Egret and Black-crowned Night Heron nest sites. Rhinoceros Auklet and Double-crested Cormorant(CSC)(01-12);all(01-12). Aleutian Canada Goose(FT)(10-11;02-04) Marbled Murrelet(SE,FT)(01-12) on nearshore waters. Snowy Plover(FT)(01-12)in dunes. Brown Pelican(FE, SE)(04-11) Raptors incl. Peregrine Falcon(FE, SE) and Osprey(CSC)(01-12).

B. Fish: anadromous salmonids: Steelhead(FSS) and Coastal Cutthroat(CSC) trouts:-Spawning runs(10-06) - Juveniles/Smolts(02-07)

C. Redtail Surfperch spawning (04-06);Dungeness Crabs in nearshore areas.

ARCHAEOLOGICAL CONCERNS: yes (see Ca. State Parks below)

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. State Park Dan Scott & Jeff Bomke
Del Norte County Sheriff's Dept. (24 hr.)
Tolowa Smith River Rancheria
Ca. DFG - OSPR Dispatch (24 hr.)
Ca. DFG, Wildlife, Inland Fish, Marine Div
Nat'l Marine Fisheries Service, Joe Cordaro

(707) 464-6101x5130
(707) 464-4191
(707)487-9255x7055 24hr
(916) 445-0045
(707) 445-6493
(562) 980-4017

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SITE SUMMARY SHEET

SITE: NC-002-A Mouth of Smith River

OSPR Map #: 001

County: Del Norte

USGS 7.5' Quad: Smith River

NOAA Chart: 18602

Lat: 41 57' N

Long: 124 12'30" W

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Go N. on U.S. Hwy 101 through Crescent City to 'Mouth of Smith River' Road MP 43.17 (about 1/2 mile N. of Ship Ashore Resort). Turn left and go to end of road. Road ends at the mouth of Smith River. Best access for response is from Ship Ashore Resort on U.S. 101 Access also available at Salmon Harbor Resort and Westbrook Gravel operation.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Tidal inlet (all year). Medium to coarse grained sand on beach face. Back beach is pebble. Driftwood - moderate on south spit, low on north side. No natural oil/tar.

Response Category 2. Easily accessed site. Distance (+20 miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Shorebirds, coastal seabirds, wading birds, waterfowl incl. Common Loon(CSC), Western Grebe, Double-crested Cormorant(CSC)(01-12), Aleutian Canada Goose(FT)(10-11;02-04), Ca. Brown Pelican(SE)(04-11), Marbled Murrelet(SE,FT)(01-12), Raptors incl. Bald Eagle (SE,FT) and Peregrine Falcon both(FE,SE), and Osprey(CSC); all(01-12).

B. Fish: Anadromous salmonids: Coho (FT) and Chinook (CSC) salmon, Steelhead (FSS) and Coastal Cutthroat (CSC) trout:

- spawning runs(08-06)
- juveniles/smolts(02-08)
- Tidewater Goby (FE)(01-12)

C. Harbor Seals pup inside river mouth. River otter Kelp beds offshore.

ARCHAEOLOGICAL CONCERNS: yes (see Ca. State Parks below)

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ship Ashore Resort

Del Norte County Sheriff's Dept. (24 hr.)

Ca. State Park, Dan Scott & Jeff Bomke

Ca. DFG - OSPR Dispatch (24 hr.)

Ca. DFG, Wildlife and Inland Fish Divisions

Fisheries Service, Joe Cordaro

(707) 487-3141

(707) 464-4191

(707) 464-6101

(916) 445-0045

(707) 445-6493 Nat'l Marine

(562) 980-4017

SITE NAME/NO Mouth of Smith River

North arrow
Scale
High-Tide Line
Low-Tide Line
substrate type

boom skimmer

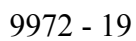
Catchment Area

Marsh

100-100000

High-Rise Overhead-Zone

East High-tide Swamp Line



SITE SUMMARY SHEET

SITE: NC-003-A South Spit Smith River

OSPR Map #: 001

County: Del Norte

USGS 7.5' Quad. name: Smith River

NOAA Chart: 18602

Lat: 41 54' N

Long: 124 12' W

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Go N. on U.S. hwy 101 through Crescent City to Northcrest Drive MP 27.010. Turn left at signal light. Name changes to Lake Earl Drive after 2 miles. Go about 5 miles and turn left on Lower Lake Rd. Go about 5 miles and turn left on Kellogg Rd. Continue on Kellogg Rd. to its end at the beach. Smith River spit is accessible by 4WD by going N. on the beach.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

- Fine to medium grain sand beach.

Response category 6. Site where immediate response is probably not necessary. Minimal damage would occur, but this does not preclude the need to clean after impacts.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Surfperch spawning 04-06

Surfsmelt spawning 04-07

ARCHAEOLOGICAL CONCERNS: Yes.

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Marine Res. Division

Ca. State Park, Dan Scott and Jeff Bomke

Del Norte County Sheriff's Dept. (24 hr.)

Ca. DFG - OSPR Dispatch (24 hr.)

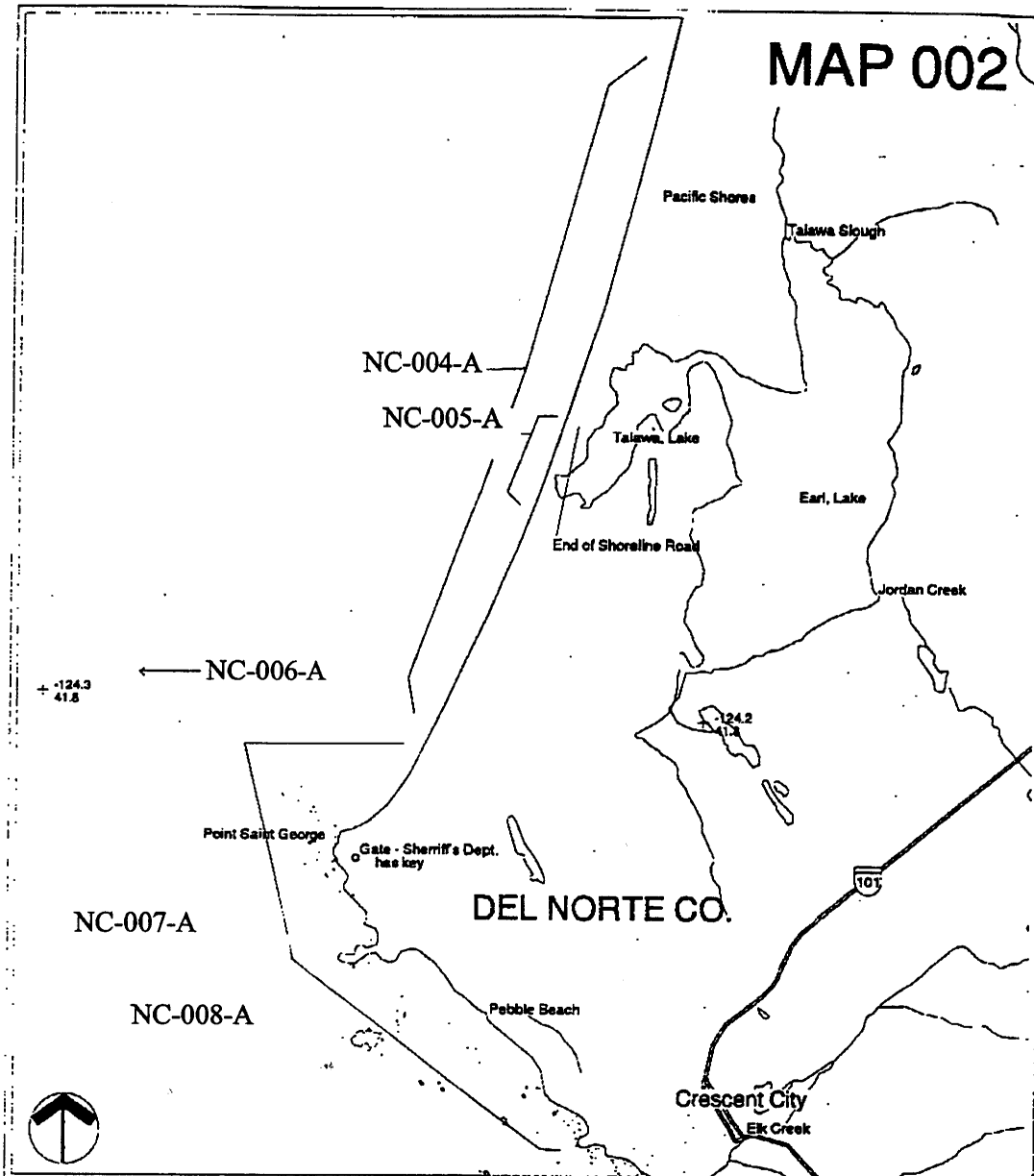
(707) 445-6493

(707) 464-6101x5050

(707) 464-4191

(916) 445-0045

MAP 002



ENVIRONMENTAL SENSITIVITY RANKING



- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993

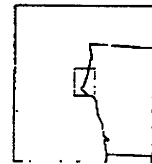


SEASONALITY

SCALE = 1:52688

0 1 2 MILES
ALBERS PROJECTION NORTH AMERICAN DATUM OF 1927

INDEX MAP



This map includes USGS quad sheets of Crescent City

The comparable NOAA nautical chart is Trinidad Head to Cape Blanco

SITE SUMMARY SHEET

SITE: NC-004-A Lake Tolowa Beach

OSPR Map #: 002

County: Del Norte

USGS 7.5' Quad. name: Crescent City

NOAA Chart: 18603

Lat: 41 48' N

Long: 124 14' W

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Go N. on U.S. Hwy 101 through Crescent City to Northcrest Drive MP 27.010. Turn left at signal light. Name changes to Lake Earl Drive after 2 miles. Go about 5 miles and turn left on Lower Lake Road. Go about 3 miles and turn left onto Kellogg Road. Continue on Kellogg Road to its end at the beach. Access also available from Point St. George(NC-007-A) along beach(4WD). Contact Sheriff's Dept. for access through locked gate.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

- Fine to medium grain sand beach.

Response Category 6. Site where immediate response is probably not necessary. Minimal damage would occur, but this does not preclude the need to clean after impacts.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Snowy Plover(FT)(01-12) esp. critical 04-08 nesting directly on beach within the dunes.

ARCHAEOLOGICAL CONCERNS: Yes

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG Wildlife Area, Cal Hampy	(707) 464-2523
Ca. DFG - OSPR Dispatch (24 hr.)	(916) 445-0045
Redwood Nat'l & St Pks Dan Scott & Jeff Bomke	(707) 464-6101x5050
x5130	
Del Norte County Sheriff's Office (24 hr.)	(707) 464-4191
U.S. Army Corp of Engineers, Eureka	(707) 443-0855

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SITE SUMMARY SHEET

SITE: NC-005-A Lake Tolowa Inlet

County: Del Norte

USGS 7.5' Quad. name: Crescent City

NOAA Chart: 18603

OSPR Map #: 002

Lat: 41 49'30" N

Long: 124 13' W

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Go N. U.S. on Hwy 101 through Crescent City to Northcrest Drive MP 27.010. Turn left at signal light. Name changes to Lake Earl Drive after 2 mi. Go about 5 mi. and turn left on Lower Lake Road. Go about 3 mi. and turn left onto Kellogg Road. Continue on Kellogg Road to Pacific Shores subdivision (south turning road near end of Kellogg Road. Turn left and continue to third right turn. Go right until road paralleling beach dunes is reached. Turn left and continue until road ends near inlet. Contact John Wilson (707) 464-7229 for information on Pacific Shores subdivision.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

- Tidal inlet (seasonal)
- Medium to fine-grained sand
- Wetland habitat within lake

This inlet is periodically breached during late winter or early spring by Del Norte County or Ca. DFG for flood control and/or wildlife management purposes.

Response category 4. Difficult access. Distance (20+ miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Wintering ground for Pacific flyway waterfowl and non-waterfowl species. Resident waterfowl, shorebirds, wading birds (01-12), Ca. Brown Pelican(SE)(04-11), Snowy Plover (FT)(01-12), Resident raptors incl. Bald Eagle (SE,FT) and Peregrine Falcon (SE), and Osprey(CSC); all(01-12).

B. Fish: anadromous salmonids: Coho(FT) and Chinook(CSC) salmon, Steelhead(FSS) and Coastal Cutthroat(CSC) trouts:

- spawning runs(08-06)
- juveniles/smolts(02-08)

ARCHAEOLOGICAL CONCERNS: Yes. See Ca. State Parks below.

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. State Park, Dan Scott & Jeff Bomke
Ca. DFG, Wildlife and Inland Fish Div.
Del Norte County Sheriff (24 hr.)
Ca. DFG - OSPR Dispatch (24 hr.)

(707) 464-6101x5050
(707) 445-6493
(707) 464-4191
(707) 445-0045

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SITE SUMMARY SHEET

SITE: NC-006-A Southwest Seal Rock

County: Del Norte

USGS 7.5' Quad. name: Crescent City

NOAA Chart: 18603

OSPR Map #: 002

Lat: 41° 49'

Long: 124° 21' W

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

No access. Rock is about 2 miles offshore and lies along Pt. St. George Reef.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

- Offshore rock.

Response Category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Marine mammals: Steller Sea Lion (FT) - pupping season (05-07). Particularly sensitive during this period. Haul-out for juveniles and adults (01-12).

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Nat'l Marine Fisheries Service, Joe Cordaro
Ca. DFG, Wildlife and Marine Res. Div.
Del Norte County Sheriff's Dept. (24 hr.)
Ca. DFG - OSPR Dispatch (24 hr.)

(562) 980-4017
(707) 445-6493
(707) 464-4191
(916) 445-0045

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SITE SUMMARY SHEET

SITE: NC-007-A Point St. George

OSPR Map #: 002

County: Del Norte

USGS 7.5' Quad. name: Crescent City

NOAA Chart: 18603

Lat: 41 47' N

Long: 124 15' W

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Go N. through Crescent City on U.S. Hwy 101 to Northcrest Drive MP 27.010. Take Northcrest Drive. Turn left on Washington Blvd. and continue to beach. At beach, turn right on Radio Road and continue to end. Vehicular access to the beach is possible through a locked gate at the end of Radio Road. (Contact Del Norte Co. Sheriff's Dept. (707) 464-4191

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

- Offshore rock. Rocky headland, wave-cut platforms, gravel beaches.

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: shorebirds, seabirds, waterfowl (01-12), Seabird Rookeries(02-10): Black Oystercatchers, Western Gulls, Pelagic Cormorants, Pigeon Guillemots, Fork-tailed Storm Petrel(CSC). Above species present(01-12). Plovers and Turnstones not breeding. Marbled Murrelet(SE,FT)(01-12). Harlequin ducks (CSC)(10-04).

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. State Park, Dan Scott and Jeff Bomke
Reservation Ranch
Pt St George Medical Clinic, Dr. Mabris
Ca. DFG, Wildlife Division
Del Norte County Sheriff's Dept. (24 hr.)
Ca. DFG - OSPR Dispatch (24 hr.)

(707) 464-6101x5050
(707) 487-3516
(707) 464-3364
(707) 445-6493
(707) 464-4191
(916) 445-0045

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SITE SUMMARY SHEET

SITE: NC-008-A Castle Rock Nat'l Wildlife Refuge

OSPR Map #: 002

County: Del Norte

USGS 7.5' Quad. name: Crescent City

NOAA Chart: 18603

Lat: 41 47' N

Long: 124 15' W

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Boat/Avon access is extremely difficult. May be observed from the W. end of Washington Blvd. in Crescent City. Contact refuge manager immediately (see telephone number below). This is a national wildlife refuge and public access is prohibited.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

- Offshore rock; National Wildlife Refuge

Response category 5. Habitat damage could result from intrusive response. Trustees recommend against on-site response.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird rookeries(03-09): Common Murre, Pigeon Guillemot, Leach's Storm Petrel, Cassin's Auklet, Western Gull, Brandt's and Pelagic Cormorants. Rhinoceros Auklet and Tufted Puffins, both (CSC). Above species present(01-12). California Brown Pelican (SE)(04-11) and Aleutian Canada Goose (FT)(10-11;02-04) use as roosting area. Peregrine Falcon (SE)(01-12).

B. Marine Mammals: Elephant Seals (pupping(05-07), haul-out(01-12)); Steller Sea Lion(FT)(01-12),
Ca. Sea Lion, Pacific Harbor Seals juveniles, adults, sub-adults - haul-out(01-12).

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

USFWS, Humboldt Bay NWR and Castle Rock NWR	(707) 733-5406
Manager: Kim Forrest	(707) 443-2602
USFWS, Resource Damage Assessment	(916) 978-4866
National Marine Fisheries Service, Joe Cordaro	(562) 980-4017
- responsible for marine mammals	
Ca. DFG, Wildlife and Marine Res. Div.	(707) 445-6493
Del Norte County Sheriff's Dept. (24 hr.)	(707) 464-4191
Ca. DFG - OSPR Dispatch (24 hr.)	(916) 445-0045

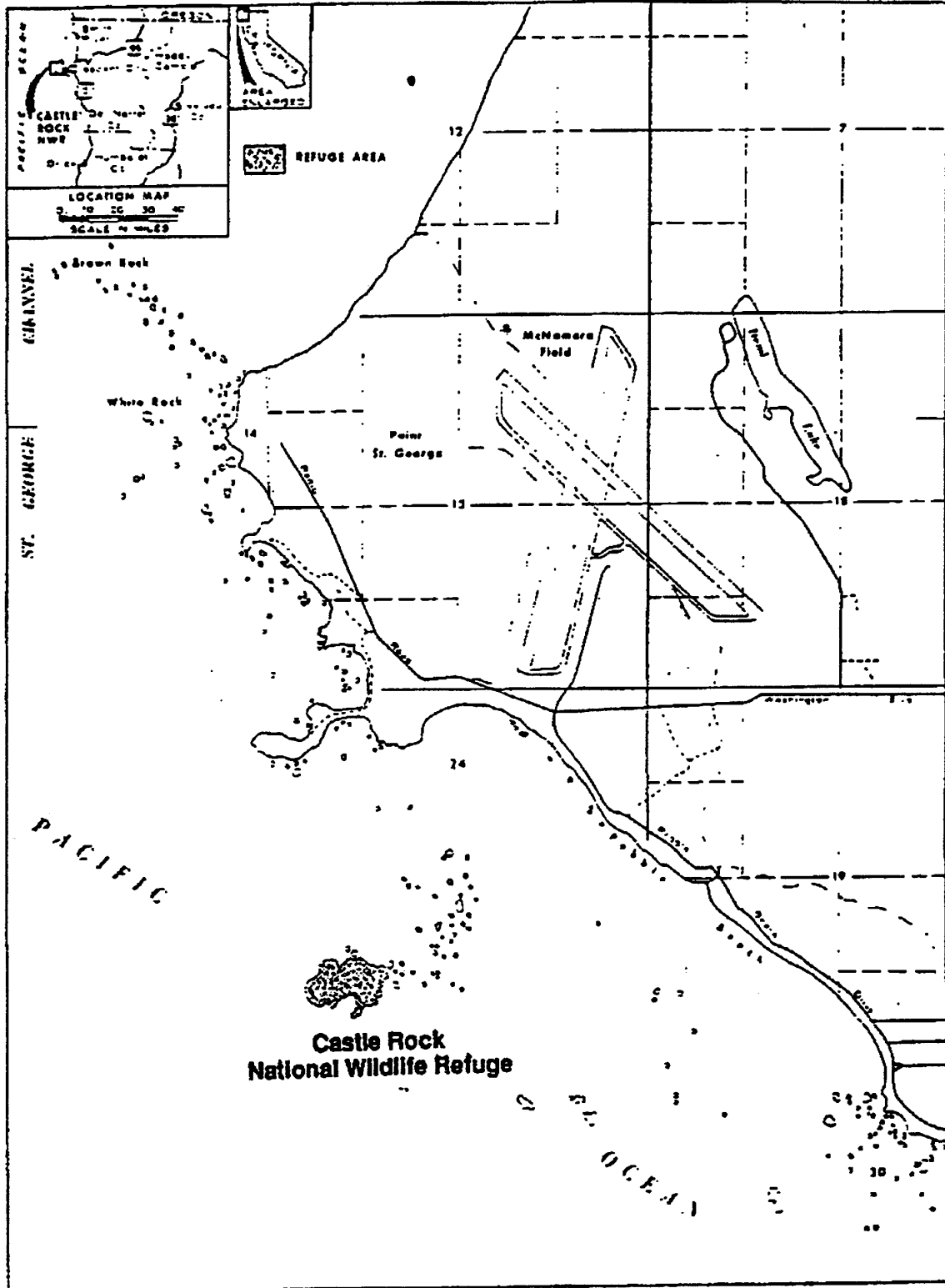
CASTLE ROCK NATIONAL WILDLIFE REFUGE

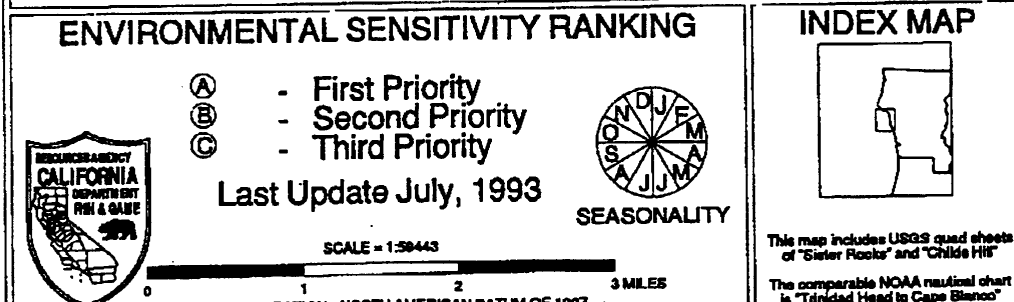
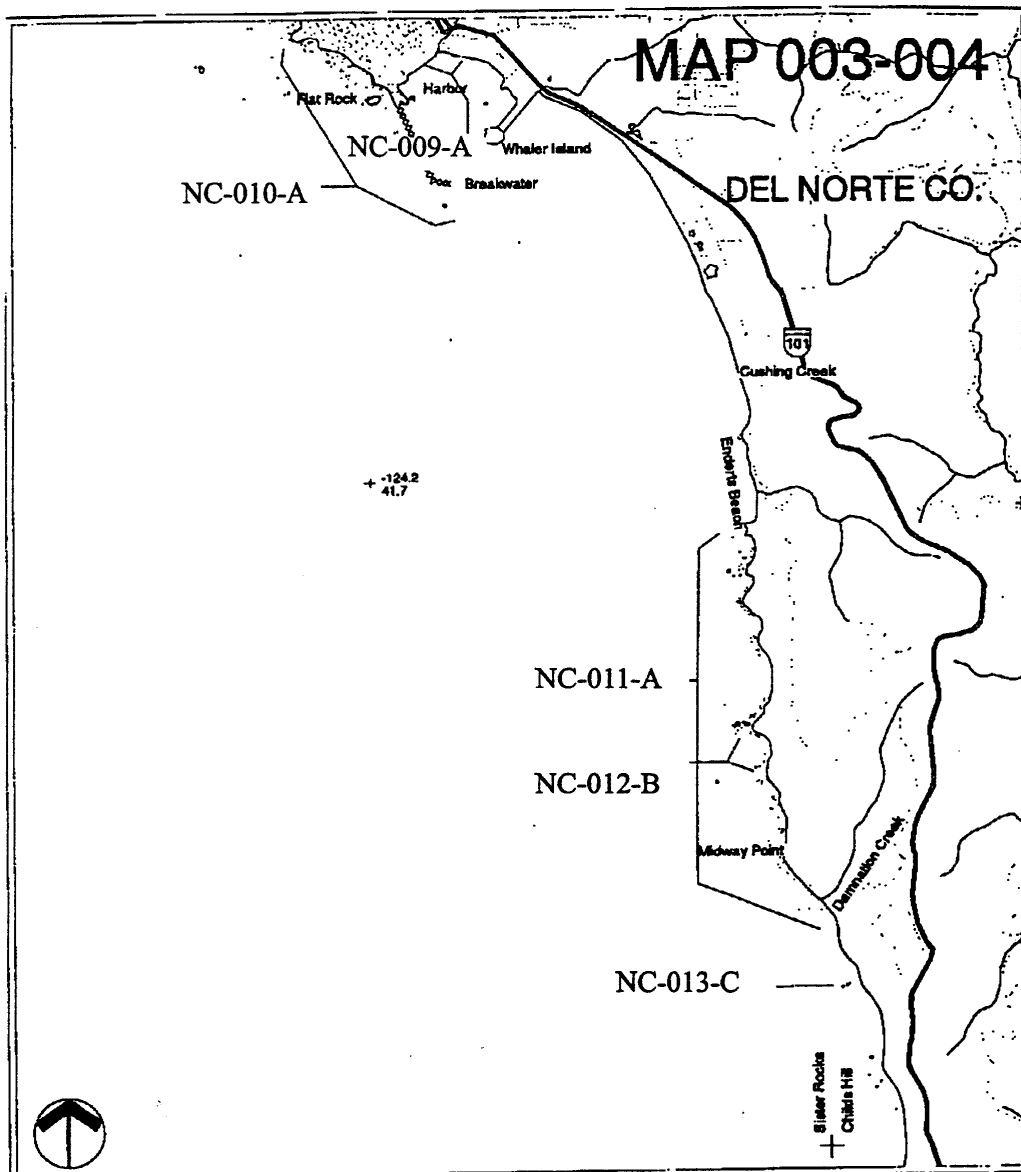
Del Norte County, California

UNITED STATES
DEPARTMENT OF THE INTERIOR

UNITED STATES
FISH AND WILDLIFE SERVICE
124 1330

R 2 W R 1 W





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SITE SUMMARY SHEET

SITE: NC-009-A Elk Creek and Crescent City Harbor

County: Del Norte

USGS 7.5' Quad. name: Crescent City

NOAA Chart: 18603

OSPR Map #: 003-004

Lat/Long: 41 45'/124 12'

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Go north on U.S. Hwy 101 into Crescent City. Turn left onto Front St. The mouth of Elk Creek and parking areas parallel Front St. A boat launch is available on south side near Whaler's Isl. Hoist or Citizen's Dock. Whaler's Isl. is off 101, turn W. onto Anchor Drive. Citizen's Dock is off 101, turn W. onto Citizen's Dock Road.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Tidal flat with limited fringe marsh. Creek has riprap north of mouth, and a sandy beach to the south. Creek flows into developed commercial and recreational harbor.

Response category 1. Easily accessed site. Close to pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: wading birds, waterfowl incl. Common Loon(CSC) and Western Grebe; all(01-12). Several T & E/CSC species use the harbor for feeding especially in summer and fall.

- Elegant Tern(CSC)(07-10)

- Fork-tailed Storm Petrel(CSC)(02-10)

- Rhinoceros Auklet(CSC)(01-12)

- Osprey(CSC)(01-12)

- Ca. Brown Pelican(FE,SE)(04-11)

- Marbled Murrelet(FE,SE)(01-12)

B. Fish: anadromous species: Coho salmon(FT), Steelhead(FSS) and Coastal Cutthroat(CSC) trouts:

- spawning runs(10-06)

- smolts/juveniles(02-08)

- Herring spawn(12-03); larval and juveniles(03-08)

C. Haul-outs for Harbor Seals and Ca. Sea Lions(01-12)

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Abalone International

(707) 464-6913

Ca. DFG, Wildlife and Inland Fish Divisions

(707) 445-6493

Del Norte County Sheriff's Dept. (24 hr.)

(707) 464-4191

Crescent City Harbor District

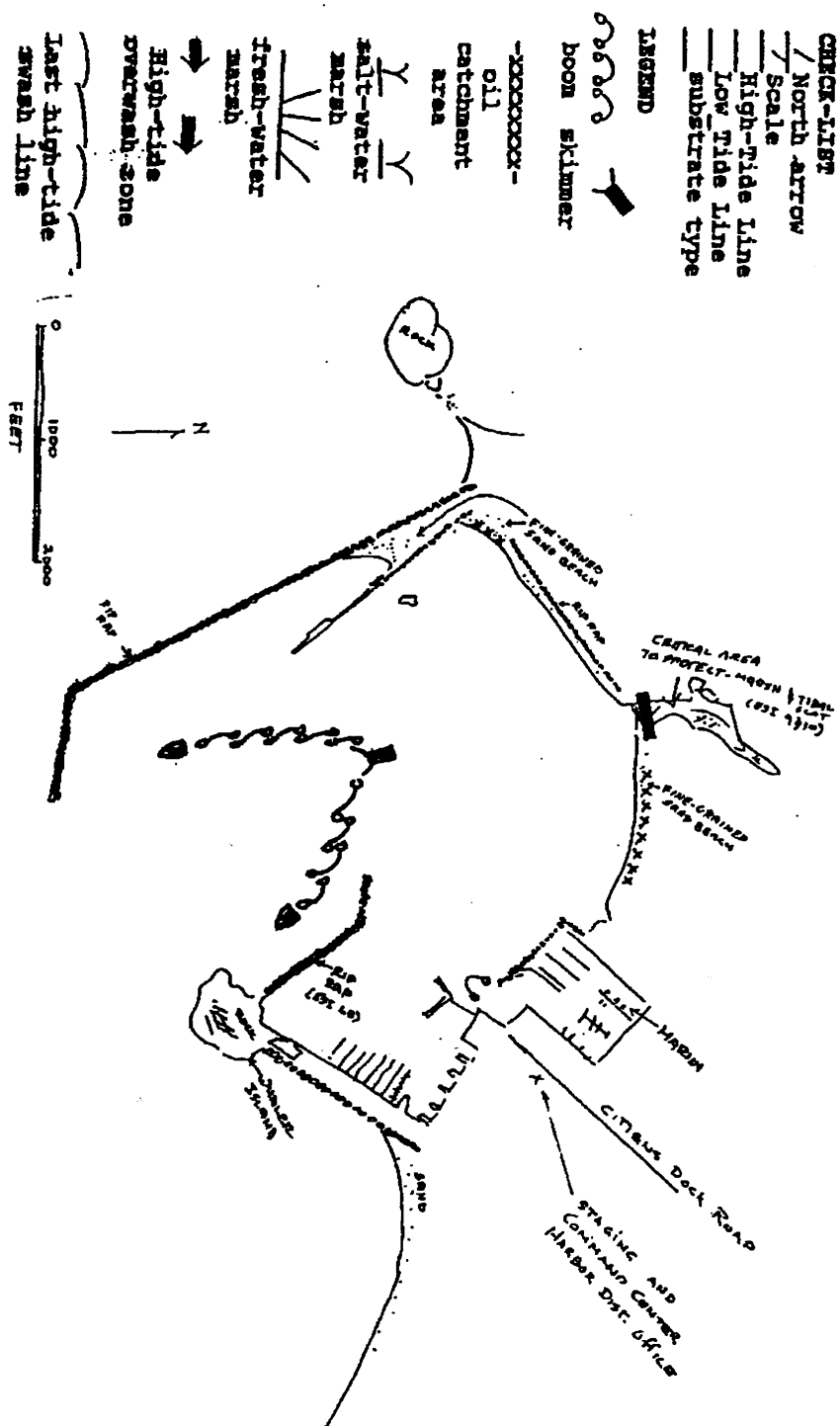
(707) 464-6174

Ca. DFG - OSPR Dispatch (24 hr.)

(707) 445-0045

SKETCH FOR SITE INFORMATION AND SPILL RESPONSE STRATEGY

SITE NAME/NO CLH Creek / Crescent City Harbor



SITE SUMMARY SHEET-OPA90

SITE: NC-010-A Battery Point

OSPR Map #: 003-004

County: Del Norte

USGS 7.5' Quad. name: Sister Rocks

NOAA Chart: 18603

Lat: 41°44'30" N

Long: 124°12'30" W

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Go north on U.S. Hwy 101 into Crescent City. Turn left(west) onto Front Street and continue to its end. Turn left(south) and continue to parking lot at Battery Point. Boats may be launched from several locations within Crescent City harbor. (Citizen's Dock off Citizen's Dock Road exiting from U.S. Hwy 101; also at the end of Anchor Drive exiting from U.S. Hwy 101).

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Offshore rocks and kelp beds.

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds:

1. Marbled Murrelet(SE,FE)(01-12)
 - Fledglings on water(07-09)
 - adults (01-12) AREA OF FREQUENT SIGHTINGS.
2. Ca. Brown Pelican (FE,SE)

B. Kelp beds

C. Harbor seals

ARCHAEOLOGICAL CONCERNS: Yes.

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Wildlife Division
Del Norte County Sheriff's Dept. (24 hr.)
Crescent City Harbor District
Ca. DFG - OSPR Dispatch (24 hr.)

(707) 445-6493
(707) 464-4191
(707) 464-6174
(916) 445-0045

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SITE SUMMARY SHEET

SITE: NC-011-A D.N. Coast Redwoods St Pk.

OSPR Map #: 003-004

County: Del Norte

Lat/Long: 41 40'/124 08'30"

USGS 7.5' Quad. name: Sister Rocks

Rev: 07/01/96

NOAA Chart: 18603

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S.hwy 101 S. from Crescent City. Exit onto Enderts Beach Road at MP 23.85. Continue to parking lot at road end. Access to beach areas via foot trails.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Offshore rocks, Rocky headlands from Enderts Beach to Damnation Creek.

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird rookeries(04-09): Brandt's and Pelagic Cormorants, Western Gulls, Common Murres, Pigeon Guillemots. Above species present (01-12). Double-crested Cormorant (CSC).

- Breeding/nesting(03-09)

- Marbled Murrelets(FT,SE)(01-12) feed in open water areas.

ARCHAEOLOGICAL CONCERNS: Yes.

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. State Park, Dan Scott and Jeff Bomke

(707) 464-6101

(707)464 - 5050

Del Norte County Sheriff's Dept. (24 hr.)

(707) 464-4191

Redwood National Park

(707) 464-6101x5050

Ca. DFG, Wildlife and Marine Res. Div.

(707) 445-6493

Ca. DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

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SITE SUMMARY SHEET

SITE: NC-012-B Scat Beach

OSPR Map #: 003-004

County: Del Norte

USGS 7.5' Quad. name: Sister Rocks

NOAA Chart: 18603

Lat: 41 40'23" N

Long: 124 08'22" W

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

None.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Exposed vertical sea wall and offshore rocks.

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Marine Mammals: Important area for Pacific Harbor Seals. Over 500 animals counted in 1991.

- pupping(03-06)

- haul-out(01-12)

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Redwood National Park

(707) 464-6101x5050

Ca. State Park, Dan Scott and Jeff Bomke

(707) 464-6101x5050

x5130

National Marine Fisheries Service, Joe Cordaro

(562) 980-4017

Ca. DFG, Wildlife and Marine Res. Div.

(707) 445-6493

Del Norte County Sheriff's Dept. (24 hr.)

(707) 464-4191

Ca. DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

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SITE SUMMARY SHEET

SITE: NC-013-C Last Chance Rock

OSPR Map #: 003-004

County: Del Norte

USGS 7.5' Quad. name: Childs Hill

NOAA Chart: 18600

Lat: 41 38'05"N

Long: 124 07'30" W

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Access by boat only.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Offshore rocks.

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird rookeries(03-09): Pelagic Cormorant, Western Gull, Pigeon Guillemot. Area also used as roosts(01-12).

B. Raptors: Peregrine Falcon (SE)(01-12)

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Redwood National Park

Ca. DFG, Wildlife Division

Del Norte County Sheriff's Dept. (24 hr.)

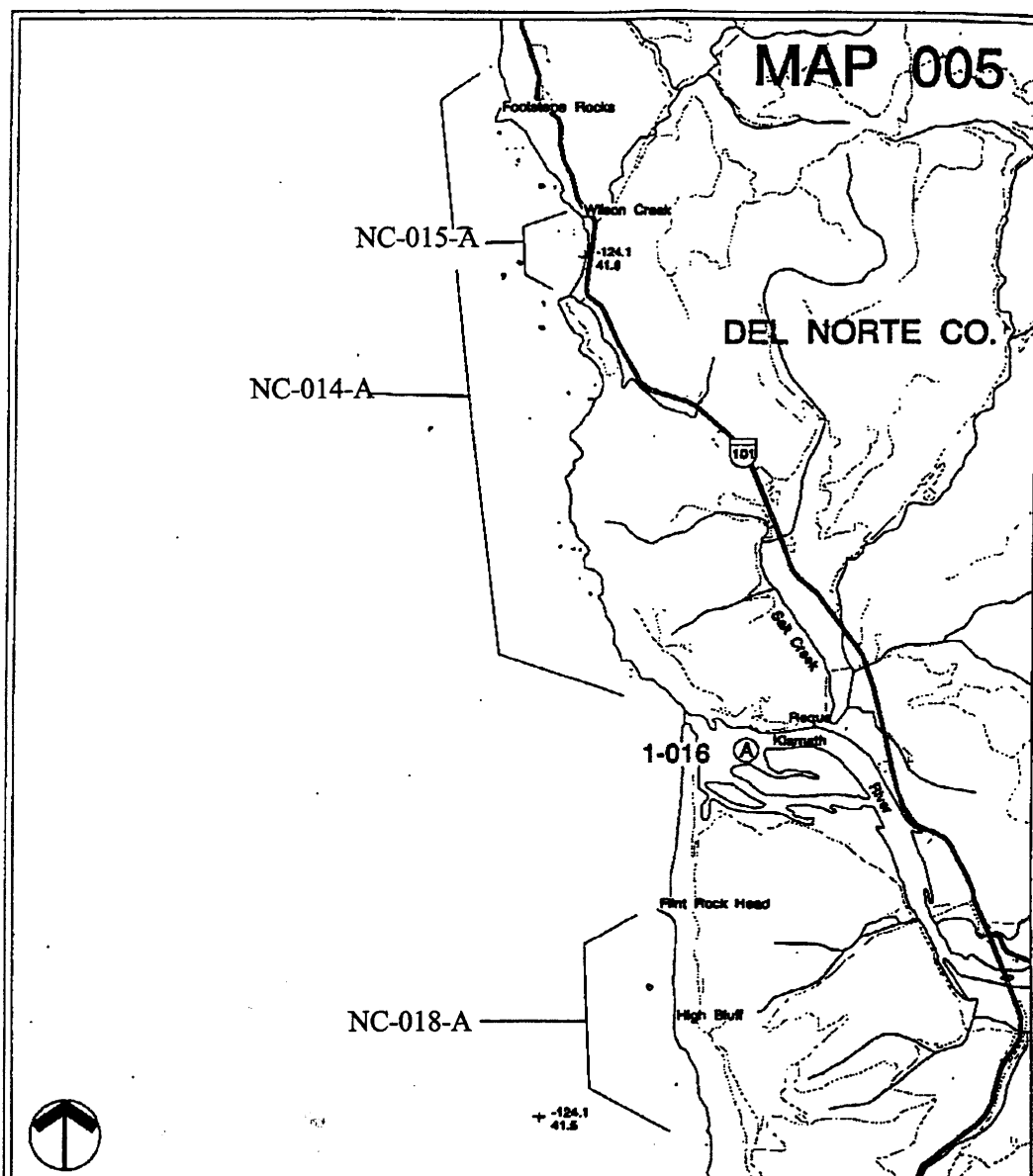
Ca. DFG - OSPR Dispatch (24 hr.)

(707) 464-6101x5050

(707) 445-6493

(707) 464-4191

(916) 445-0045



ENVIRONMENTAL SENSITIVITY RANKING



- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993



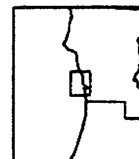
SEASONALITY

SCALE = 1:50332

0 1 2 3 MILES.

ALBERS PROJECTION - NORTH AMERICAN LAM OF 1927

INDEX MAP



This map includes USGS quad sheets of Pogon

The comparable NOAA nautical chart is "Trinidad Head to Cape Blanco"

Chart Number: 16600

SITE SUMMARY SHEET

SITE: NC-014-A **Footsteps Rocks to Radar Station Rocks** **OSPR Map #: 005**

County: Del Norte

USGS 7.5' Quad. name: Requa

NOAA Chart: 18600

Lat/Long: 41 35'/124 06'

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 S. from Crescent City. Exit onto Enderts Beach Road MP 23.85. Continue to parking lot at roads' end. Access by foot via Damnation Creek Trail to Footsteps Rocks. Access to Radar Station Rocks area via trail from NC-015-A.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Offshore rocks, rocky headland, gravel beaches, tidal inlet.

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird rookeries(03-09): Common Murre (>26,000 obs. on False Klamath Rock) Brandt's and Pelagic Cormorant, Pigeon Guillemot, Western Gull, Black Oystercatcher. Above species present(01-12): Double-crested Cormorant(CSC); Breeding/nesting(03-09) Brown Pelican (FE,SE) - roosts on False Klamath Rock; Raptors: Peregrine Falcon (SE)(01-12)

B. Marine Mammals: haul out areas near south end of this site.

ARCHAEOLOGICAL CONCERNS: Yes.

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Redwood National Park

Ca. State Park, Dan Scott and Jeff Bomke

Ca. DFG, Wildlife and Marine Res. Div.

USFWS, Resource Damage Assessment

Del Norte County Sheriff's Dept. (24 hr.)

Ca. DFG - OSPR Dispatch (24 hr.)

(707) 464-6101x5050

(707) 464-6101

(707)464-5050

(707) 445-6493

(916) 978-4866

(707) 464-4191

(916) 445-0045

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SITE SUMMARY SHEET

SITE: NC-015-A Wilson Creek and Lagoon Ck

OSPR Map #: 005

County: Del Norte

Lat/Long: 41 35'45"/124 06'

USGS 7.5' Quad. name: Requa

Rev: 07/01/96

NOAA Chart: 18600

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Alongside U.S. Hwy 101 about 15 miles south of Crescent City Parking area for Wilson Creek Beach, MP 12.642, is immediately off hwy. 101 on the west side. Lagoon Creek is located about 100 yds. to the south, and parking area is adjacent to the lagoon. Parking is also available to the east off hwy 101 at the Youth Hostel.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Course grain to granule beach. Extensive log debris near the mouth of Lagoon Creek.

Response category 2. Easily accessed site. Distance (20+ miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Shorebirds, seabirds, waterfowl:

1. California Brown Pelican (FE,SE)(04-11)

2. Harlequin Duck (CSC)(01-04;09-12) mouth of Wilson Crk.

B. Fish (Anadromous salmonids): Coho(FT) and Chinook(CSC) salmon, Steelhead(FSS) and Coastal Cutthroat(CSC) trouts.

- spawning runs(08-06)

- smolts/juveniles(02-08)

- Surfsmelt spawn (03-07)

C. Marine mammals eg. Sea Lions present

ARCHAEOLOGICAL CONCERNS: Yes.

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. State Park, Dan Scott and Jeff Bomke

(707) 464-6101

(707)464-5050

Redwood National Park

(707) 464-6101x5050

Ca. DFG, Wildlife and Marine Resources Div.

(707) 445-6493

Del Norte County Sheriff's Dept.

(707) 464-4191

Ca. DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

National Marine Fisheries Service, Joe Cordaro

(562) 980-4017

INLET SKETCH MAP

Wilson Creek

Inlet Name INLET, CA.

Recorder(s) MOH/TMY

Date/Time 13 Nov. 1992, 0930

Tide Stage Low (0641 (+3.4)), Crescent City

Inlet Classification D

CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

LEGEND

-----xxxxxxx-----

Recommended
Oil-Catchment Area

✓ ✓

Salt-Water Marsh



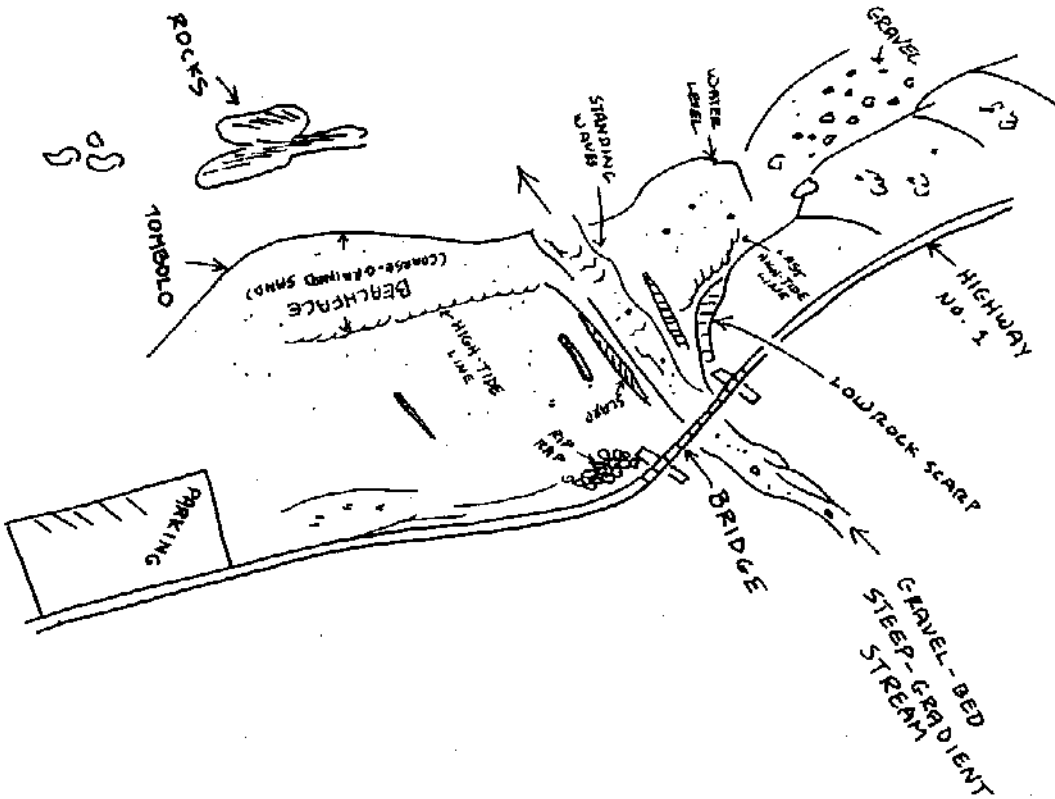
Fresh-Water Marsh



High-Tide
Overwash Zone



Last High-Tide
Swash Line



N

SITE SUMMARY SHEET

SITE: NC-016-A Klamath River Mouth

OSPR Map #: 005

County: Del Norte

USGS 7.5' Quad. name: Requa

NOAA Chart: 18600

Lat/Long: 41 32'30"/124 05'

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Go north from Eureka on U.S. Hwy 101. The south side of the river and Klamath Cove R.V. Park are accessible from the Mouth of the Klamath Road at MP 4.038, just south of the Klamath River bridge. Exit east and turn west under the hwy. The north side of the road is accessible via Requa Road on the north side of the bridge at MP 4.424. Exit east and follow signs to Requa Resort and Cafe (Mouth of Klamath Road) or Klamath River boat ramp (old town site).

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Fine to medium grained sand beach. The mouth of the river may migrate over a period of years from the north or south end of the beach to the other end, a distance of about 1.5 miles.

Response category 2. Easily accessed site. Distance (20+ miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: coastal seabirds, shorebirds, wading birds, waterfowl incl. loons and grebes(01-12)

1. Raptors: Bald Eagle (SE,FT) and Peregrine Falcon (FE,SE); Osprey(CSC) - all(01-12) California Brown Pelican (FE,SE)(04-11)

B. Fish: Anadromous salmonids: Coho(FT) and Chinook(CSC) salmon, Steelhead(FSS) and Coastal Cutthroat(CSC) trouts:

-spawning runs(08-06)

-juveniles/smolts(03-08)

1. Anadromous fish: Green Sturgeon - larvae and juveniles in estuary; Pacific Lamprey - runs upstream along shore; Tidewater Goby(FE)(01-12)

C. Marine Mammals: Pacific Harbor Seal haul-out areas-Steller Sea Lions (FT) seasonal; River otters
* Immature of both species may be present at any month along the shore.

ARCHAEOLOGICAL CONCERNS: Yes.

SITE SUMMARY SHEET

SITE: NC-016-A Klamath River Mouth

OSPR Map #: 005

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Bureau of Indian Affairs

(707) 482-8185

USFWS, Fisheries Assistance Office

(707) 822-7201

Redwood National Park

(707) 464-6101x5050

Del Norte County Sheriff's Dept. (24 hr.)

(707) 464-4191

Ca. DFG, Wildlife, Inland Fish, and Marine Div

(707) 445-6493

Ca. DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

National Marine Fisheries Service, Joe Cordaro







(562) 980-4017

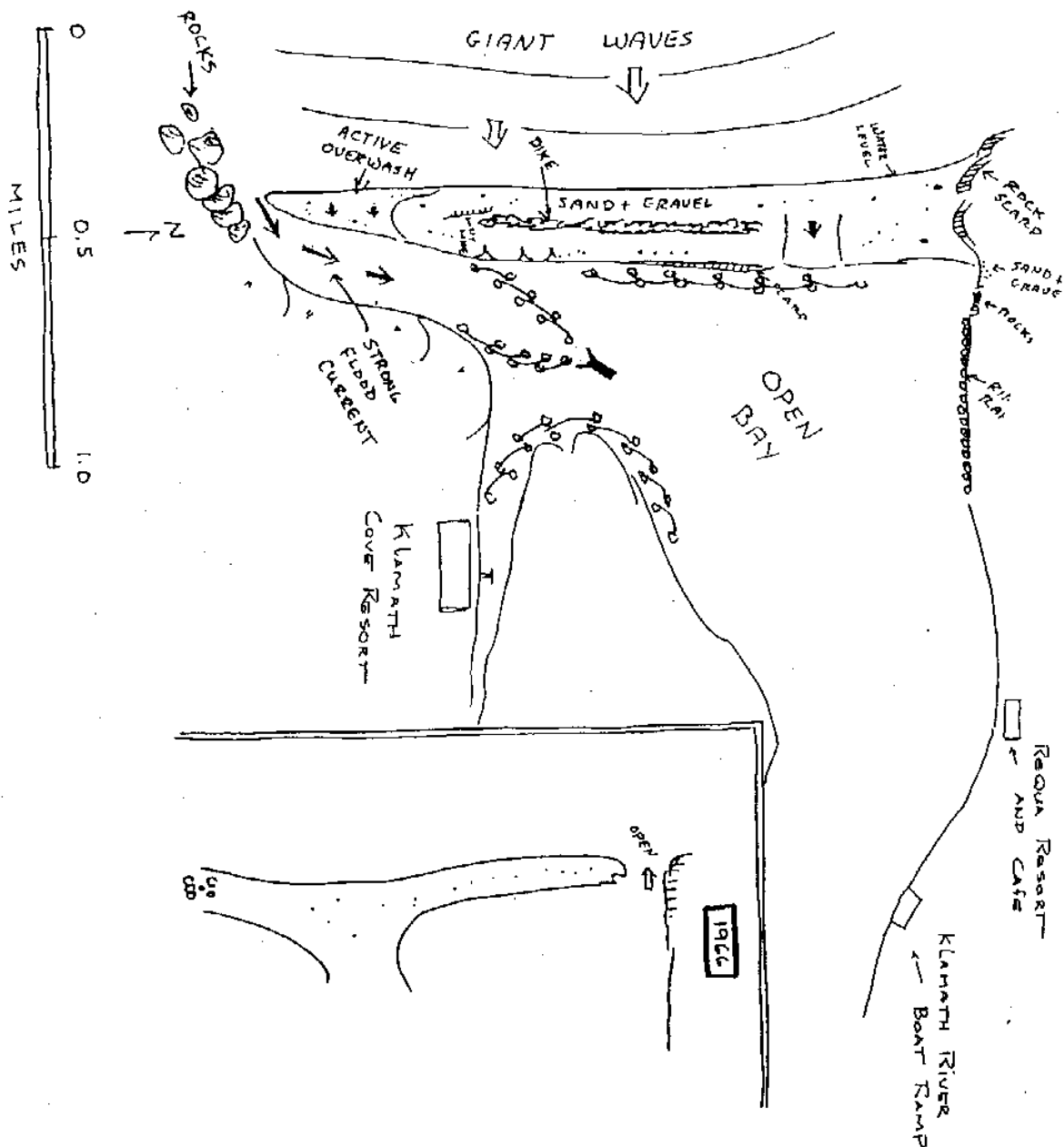
SKETCH FOR SITE INFORMATION AND SPILL RESPONSE STRATEGY

SITE NAME/NO KLAMATH RIVER MOUTH

- CHECK-LIST
- North Arrow
 - Scale
 - High-Tide Line
 - Low Tide Line
 - substrate type

LEGEND

-  boom skimmer
-  -xxxxxxx- oil catchment area
-  salt-water marsh
-  fresh-water marsh
-  High-tide overflow zone
-  Last high-tide wash line



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SITE SUMMARY SHEET

SITE: NC-018-A Flint Rock and White Rock

OSPR Map #: 005

County: Del Norte

Lat/Long: 41 30'30"/124 05'

USGS 7.5' Quad. name: Requa

NOAA Chart: 18600

Other:

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

No access.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

White Rock - offshore.

Flint Rock - exposed rocky cliffs/headland.

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabirds: Pelagic Cormorant, Western Gull, Pigeon Guillemot, Double-crested Cormorant(CSC)
all(01-12),

Ca. Brown Pelican(FE,SE)(04-11), Peregrine Falcon(SE)(01-12)

ARCHAEOLOGICAL CONCERNS: Yes

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Redwood National Park

(707) 464-6101x5050

Ca. DFG, Wildlife Division

(707) 445-6493

USFWS, Resource Damage Assessment

(916) 978-4866

Del Norte County Sheriff's Dept. (24 hr.)

(707) 464-4191

Ca. DFG - OSPR Dispatch (24 hr.)

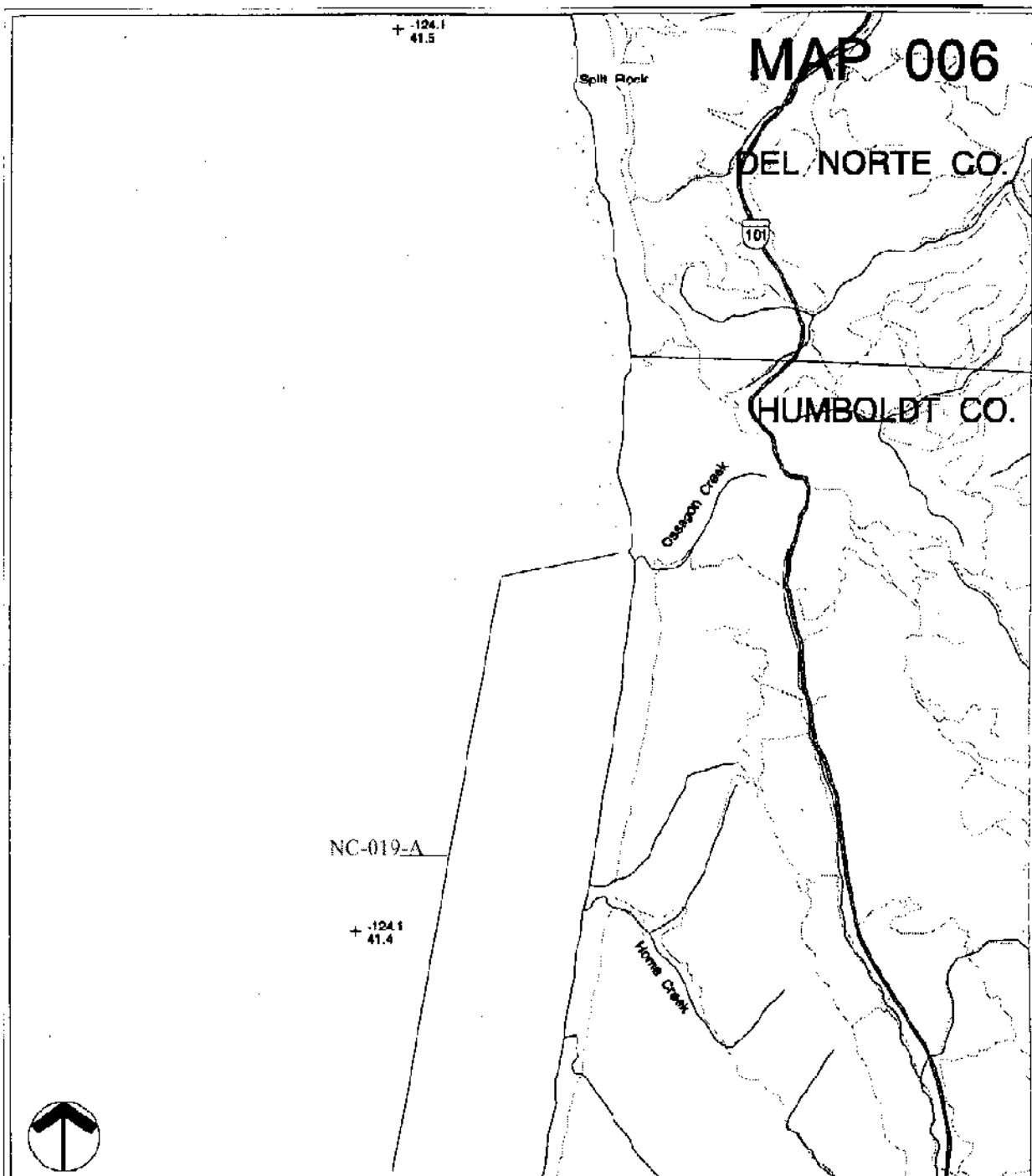
(916) 445-0045

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9972.3 Humboldt County Environmentally Sensitive Sites

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ENVIRONMENTAL SENSITIVITY RANKING



- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993

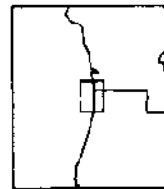


SEASONALITY

SCALE - 1:51307

0 1 2 MILES
ALBERS PROJECTION - NORTH AMERICAN DATUM OF 1927

INDEX MAP



This map includes USGS quad sheets of Fern Canyon

The comparable NOAA nautical chart is Trinidad Head to Cape Blanco

SITE SUMMARY SHEET

SITE: NC-019-A Gold Bluffs Beach

OSPR Map #: 006,007

County: Humboldt

USGS 7.5' Quad. name: Fern Canyon

NOAA Chart: 18600

Lat/Long: 41 24'/124 04'

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From Eureka, go north on U.S. Hwy 101 to Davidson Road MP 123.82. Go west to Gold Bluffs Beach (3 miles).

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Fine to medium grain sand beach starting at Ossagon Creek (north end) south to Big Lagoon. Espal Lagoon is located here, but far enough from the beach that impacts are unlikely.

Response category 6. Site where immediate response is probably not necessary. Minimal damage would occur, but this does not preclude the need to clean after impacts.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Fish: Surfperch spawn (4-6)
Surfsmelt (5-7)

ARCHAEOLOGICAL CONCERNS: Yes.

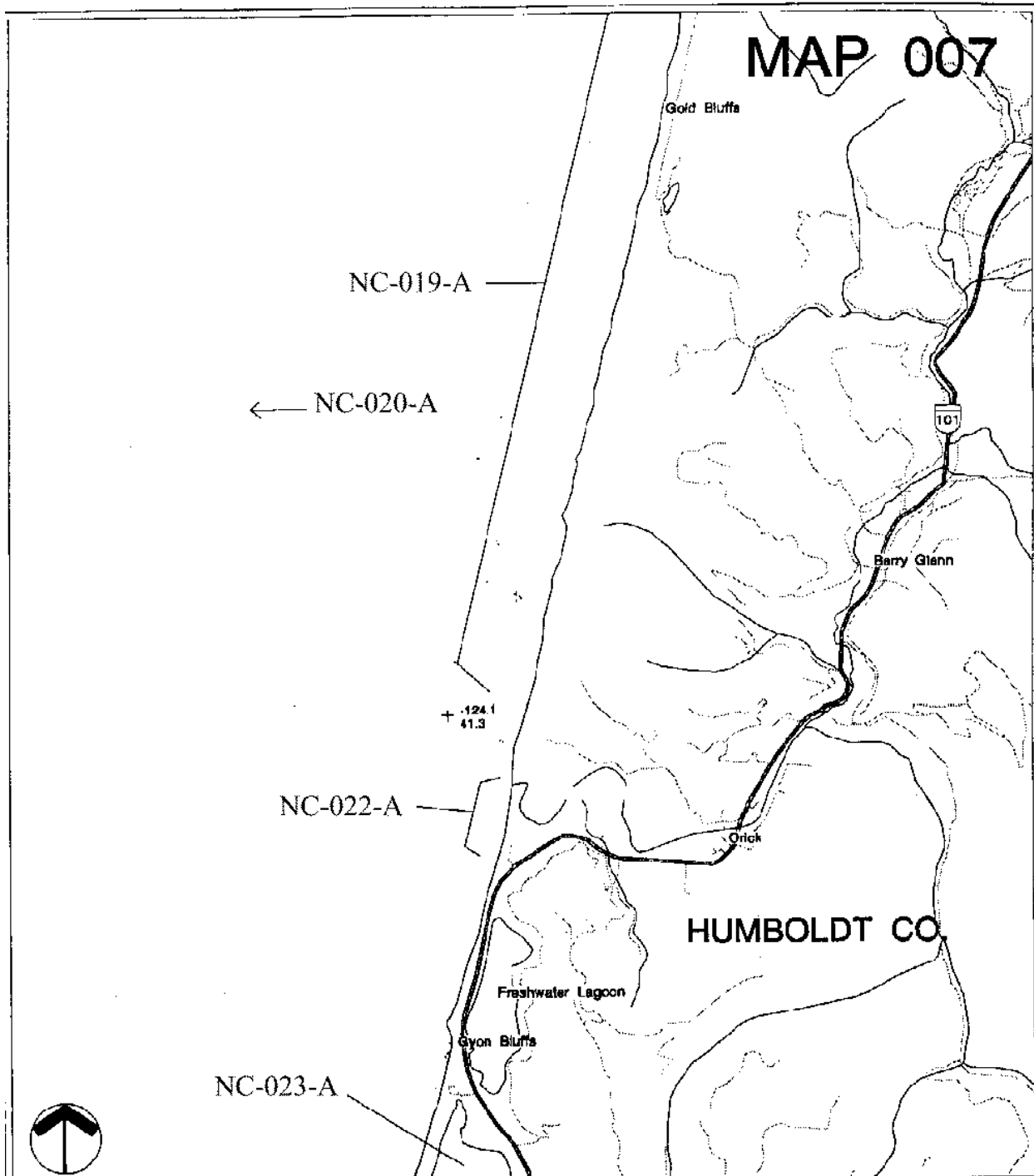
TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Marine Resources Division
Prairie Creek Redwoods State Park
Redwood National Park
Ca. DFG - OSPR Dispatch (24 hr.)
Humboldt County Sheriff's Dept. (24 hr.)

(707) 445-6493
(707) 445-6547x11
(707) 464-6101x5050
(916) 445-0045
(707) 445-7251

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MAP 007



ENVIRONMENTAL SENSITIVITY RANKING



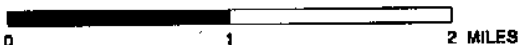
- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993



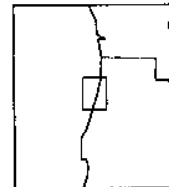
SEASONALITY

SCALE = 1:50914



ALBERS PROJECTION - NORTH AMERICAN DATUM OF 1927

INDEX MAP



This map includes USGS quad sheets of Orick

The comparable NOAA nautical chart is Trinidad to Cape Blanco

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SITE SUMMARY SHEET

SITE: NC-020-A Redding Rock

OSPR Map #: 007

County: Humboldt

USGS 7.5' Quad. name: Orick

NOAA Chart: 18600

Lat: 41 20'30" N

Long: 124 05'30" W

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

No access. Rock lies about 6 miles offshore. Boat access limited because of steep sides. Survey area by helicopter.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Offshore rocks.

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Marine mammals: Steller Sea Lions(FT)(01-12) in low numbers.

B. Seabirds: Common Murres, Brandt's Cormorant, Western Gulls, Pigeon Guillemot

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Wildlife and Marine Div.

National Marine Fisheries Service, Joe Cordaro

Ca. DFG - OSPR Dispatch (24 hr.)

Humboldt County Sheriff's Dept. (24 hr.)

(707) 445-6493

(562) 980-4017

(916) 445-0045

(707) 445-7251

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SITE SUMMARY SHEET

SITE: NC-022-A Redwood Creek

OSPR Map #: 007

County: Humboldt

USGS 7.5' Quad. name: Orick

NOAA Chart: 18600

Lat/Long: 41 17'30"/124 05'

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From Eureka, go north on U.S. hwy 101 - South bank access: Turn W. to Redwood N. Pk. Visitor Center 2 miles south of Orick. Mouth of creek is near Visitor Ctr.

North bank access: Continue on hwy 101 into Orick and over the bridge. Turn left onto Hufford Road MP 121.228 and continue to the end of the road. Access to the creek mouth may be possible via construction roads along the top of river riprap.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Estuary and sandy beach with a limited freshwater marsh. Riprapped stream banks.

Response category 4. Difficult access. Distance (20+ miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Shorebirds, Seabirds, Raptors incl. Bald Eagle(SE,FT), Peregrine Falcon(FE,SE), Osprey(CSC); all (01-12). Snowy Plover (FT)(01-12) - Critical nesting period (04-07). Nests directly on sand within dunes. California Brown Pelican (FE,SE)(04-11)

B. Fish: anadromous salmonids: Coho(FT) and Chinook(CSC) salmon, Steelhead(FSS), Tidewater Goby (FE) (01-12) and Coastal Cutthroat(CSC) trouts:

- spawning runs(08-06)
- juveniles/smolts(02-08)

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Wildlife, Inland Fish, Marine Div.
Redwood National Park

(707) 445-6493
(707) 464-6101
(707) 464-5050
(707) 445-7251
(916) 445-0045

Humboldt County Sheriff's Dept. (24 hr.)
Ca. DFG - OSPR Dispatch (24 hr.)

SKETCH FOR SITE INFORMATION AND SPILL RESPONSE STRATEGY

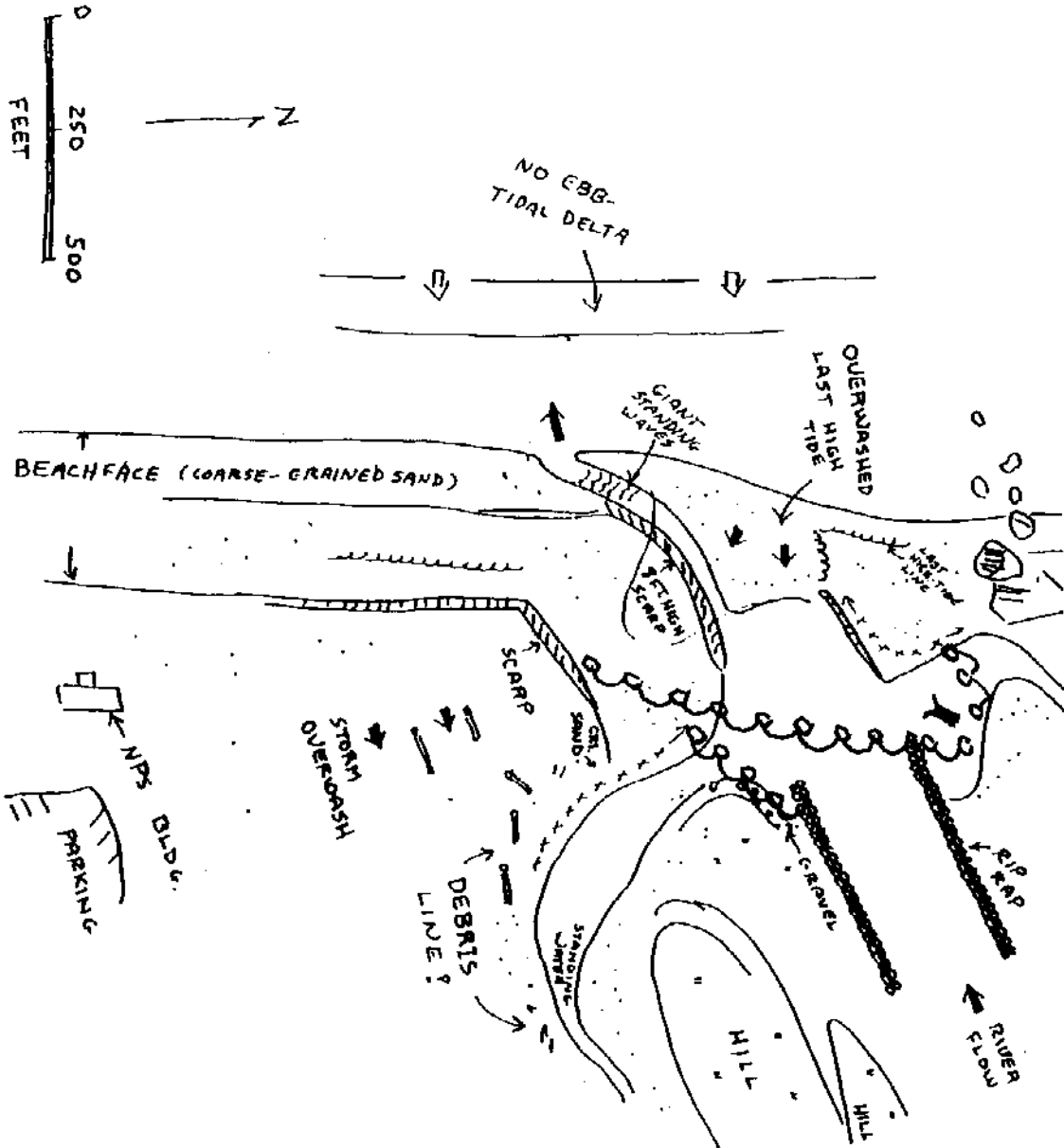
SITE NAME/NO Redwood Creek

CHECKLIST

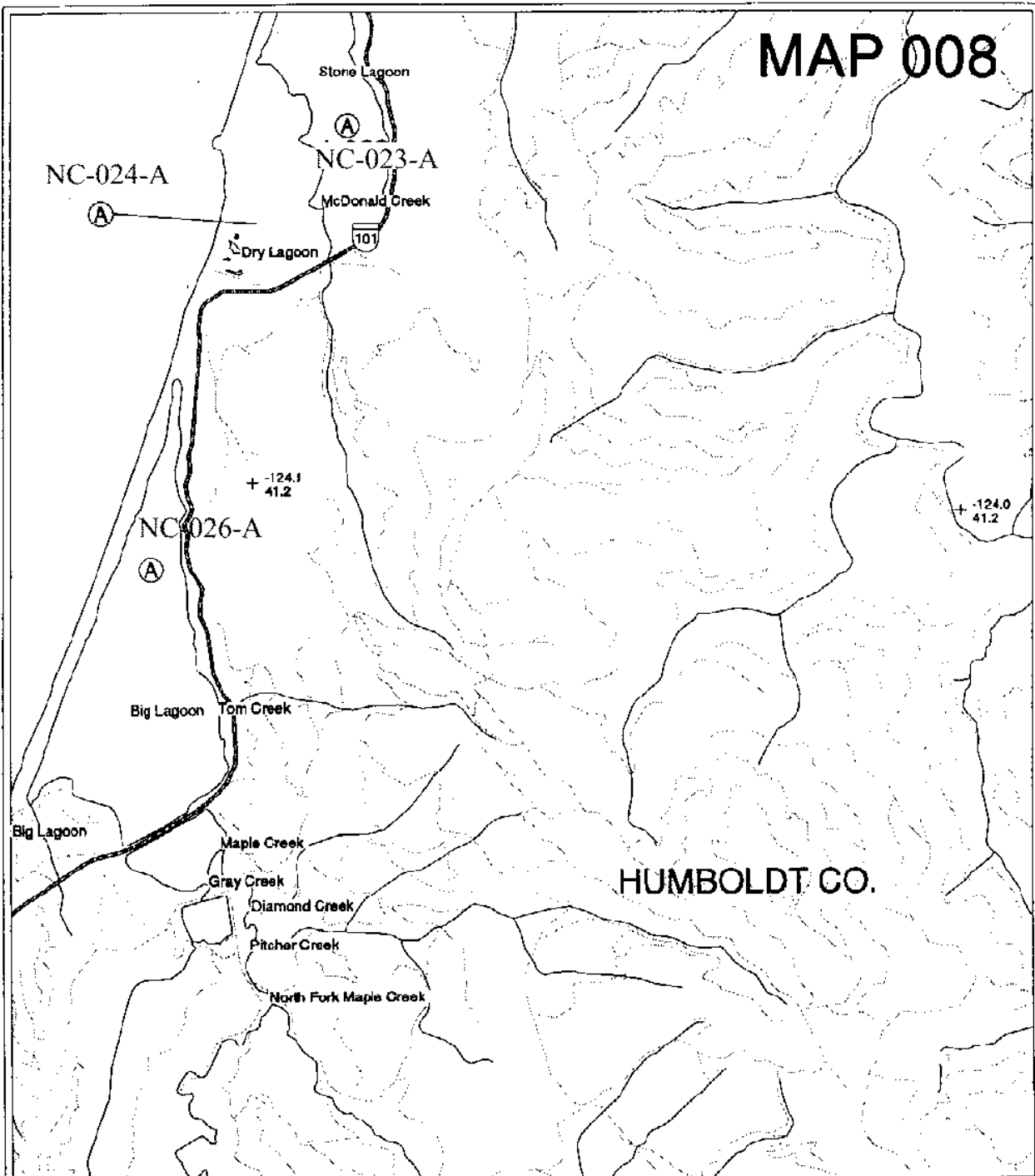
- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

LEGEND

- xxxxxxx— Recommended Oil-Catchment Area
- ⌊ ⌋ Salt-Water Marsh
- ⌊ ⌋ Fresh-Water Marsh
- → High-Tide Overwash Zone
- ~~~~~ Last High-Tide Swash Line



MAP 008



ENVIRONMENTAL SENSITIVITY RANKING

- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993



SCALE = 1:51566

0 1 2 MILES

ALBERS PROJECTION NORTH AMERICAN DATUM 1927



SEASONALITY

INDEX MAP



This map includes USGS quad sheets of Rodgers Peak

The comparable NOAA nautical chart is Trinidad Head to Cape Blanco

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SITE SUMMARY SHEET

SITE: NC-023-A Stone Lagoon

County: Humboldt

USGS 7.5' Quad. name: Orick

NOAA Chart: 18600

OSPR Map #: 007,008

Lat/Long: 41 15'124 05'30"

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From Eureka, go north on U.S. Hwy 101. Hwy 101 skirts the east side of the lagoon and access points are visible just off the highway. A boat launch ramp and visitor's center are located alongside the highway. A coastal access road is available on the north end of the lagoon. Parking is available at the visitor's ctr. and at the end of the coastal access road. 4WD access to the SW corner where the lagoon generally breaches is possible from the parking lot at the end of the coastal access road. Skiffs may be launched at the State Park HQ.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Coastal lagoon with freshwater marsh. Separated from the ocean by a fine to medium grain sand beach. Infrequently open to the ocean.

Response category 4. Difficult access. Distance (20+ miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Shorebirds, Seabirds, Waterfowl, Loons, Grebes Raptors incl. Bald Eagle (SE,FT), Peregrine Falcon (FE,SE), Osprey(CSC); all(01-12). Golden Eagle(CSC). California Brown Pelican(FE,SE)(04-11). Proposed Snowy Plover Critical Habitat - sand dunes between the ocean and lagoon(Fed'l). Snowy Plover(FT)(01-12) - critical nesting period (04-07). Nests directly on sand within dunes.

B. Fish: Anadromous salmonids: Coho(FT) and Chinook(CSC) salmon, Steelhead(FSS), Tidewater Goby

(FE) (01-12) and Coastal Cutthroat (CSC) trouts:

- spawning runs(08-06) when lagoon breaches
- juveniles/smolts(01-12)

C. Plants: Humboldt Bay Owl's Clover (FSC)

D. Marine mammals feed in surf and nearshore.

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Wildlife and Inland Fish Div.

Redwood National Park

Humboldt County Sheriff's Dept. (24 hr.)

Ca. DFG - OSPR Dispatch (24 hr.)

Ca. State Park at Stone Lagoon

(707) 445-6493

(707) 464-6101x5050

(707) 445-7251

(916) 445-0045

(707) 488-2041

(916) 988-4346 24hr

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SITE SUMMARY SHEET

SITE: NC-024-A Dry Lagoon State Beach

OSPR Map #: 008

County: Humboldt

Lat/Long: 41 14'/124 07'

USGS 7.5' Quad. name: Rodgers Peak

Rev: 07/01/96

NOAA Chart: 18600

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From Eureka, go N. on Hwy 101. Turn left onto road marked Day Use Dry Lagoon State Park near MP 114.457.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Outer beach: coarse grain to granule beach separates ocean from saltwater and freshwater marshes High tides and strong winter storms can push water to the beach crest.

Response category 4. Difficult access. Distance (20+ miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Shorebirds, Seabirds, Waterfowl California Brown Pelican (FE,SE)(04-11) Raptors incl. Peregrine Falcon(SE)(01-12) Proposed Snowy Plover Critical Habitat - sand dunes between the ocean and Lagoon (Fed'l). Snowy Plover(FT)(01-12) - critical nesting period(04-07). Nesting directly on sand within dunes.

B. Fish: Tidewater Goby(FE)(01-12), Surfperch spawning(04-06).

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Wildlife, Inland Fish, Marine Div

(707) 445-6493

Ca. State Parks

(707) 445-6547x11

Redwood National Park

(707) 464-6101

(707)464-5050

Humboldt County Sheriff's Dept. (24 hr.)

(707) 445-7251

Ca. DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

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SITE SUMMARY SHEET

SITE: NC-026-A Big Lagoon

OSPR Map #: 008

County: Humboldt

USGS 7.5' Quad. name: Rodgers Peak

NOAA Chart: 18600

Lat/Long: 41 10'30"/124 07'

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From Eureka, go north on U.S. Hwy 101. Turn left onto Round House Road 108.250 and follow signs to county park. Various access points are available (by foot from hwy 101) on east side of lagoon. Access to the north end of the lagoon where breaching occurs is possible only by traversing the beach (about 2 miles).

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

The lagoon is separated by a spit, which is seasonally open to the ocean. The lagoon is open freshwater and saltwater marshes. The spit is fine to granule sand.

Response category 4. Difficult access. Distance (20+ miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Shorebirds, Seabirds, Waterfowl; California Brown Pelican (FE,SE)(04-11), Raptors incl. Peregrine Falcon(SE,FE), Bald Eagle(FT,SE), and Osprey(CSC); all(01-12). Proposed Snowy Plover Critical Habitat is sand dunes between the ocean and lagoon. Snowy Plover(FT)(01-12) critical nesting period(04-07) nesting directly on sand within dunes.

B. Fish:

1. Tidewater Goby(FE)(01-12)

2. Anadromous salmonids: Coho(FT) and Chinook(CSC)salmons, Steelhead(FSS) and Coastal Cutthroat(CSC) trouts:

- spawning(08-06) when lagoon breaches
- juveniles/smolts(01-12)

ARCHAEOLOGICAL CONCERNS: Yes.

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Wildlife and Inland Fish Div.

Humboldt County Parks

Humboldt County Sheriff's Dept. (24 hr.)

Ca. DFG - OSPR Dispatch (24 hr.)

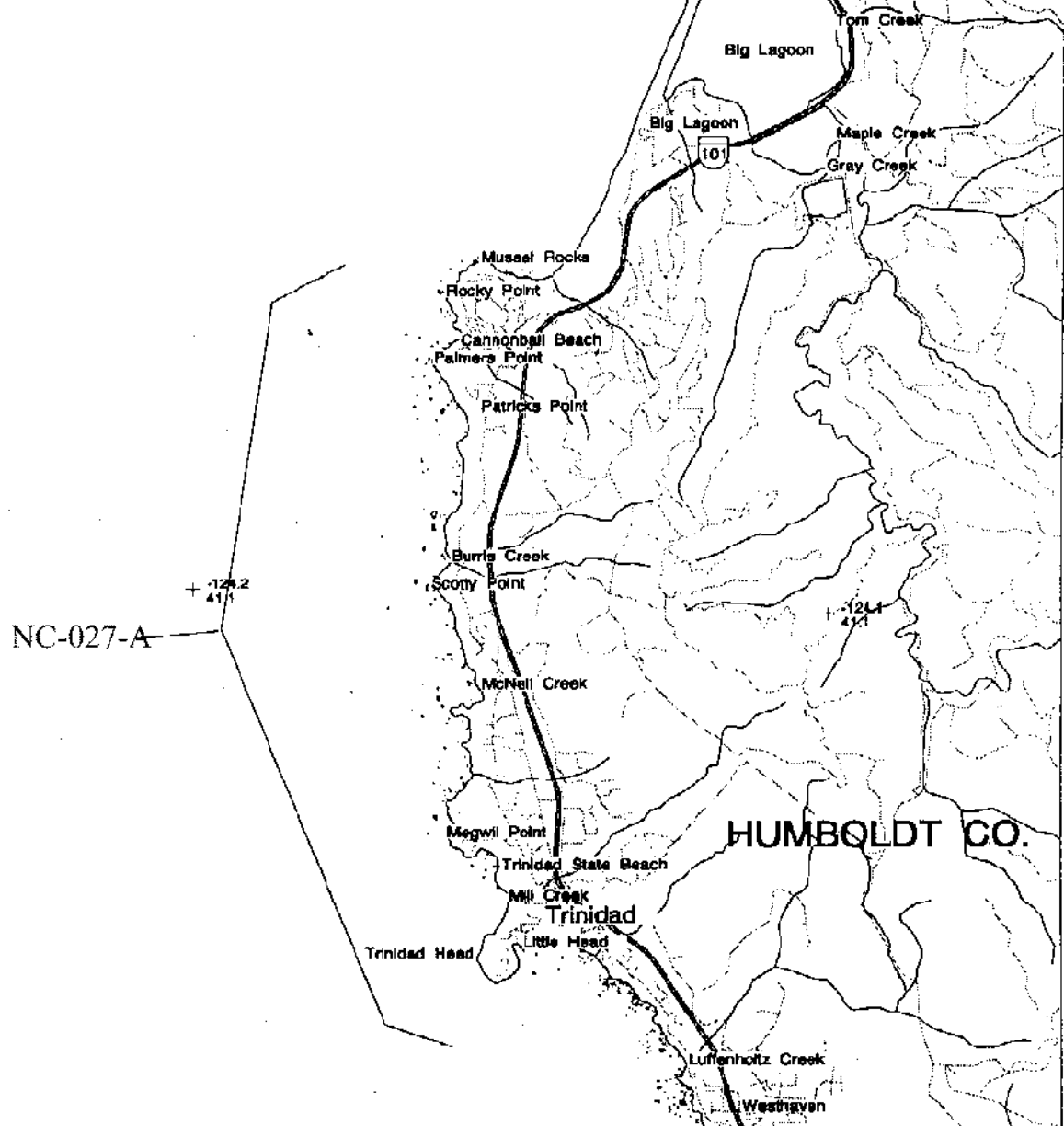
(707) 445-6493

(707) 445-7651

(707) 445-7251

(916) 445-0045

MAP 009



ENVIRONMENTAL SENSITIVITY RANKING

- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993

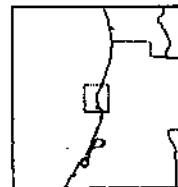


SEASONALITY

SCALE = 1:70162

0 1 2 3 MILES
ALBERS PROJECTION - NORTH AMERICAN DATUM OF 1927

INDEX MAP



This map includes USGS quad sheets of Trinidad

The comparable NOAA nautical chart is Trinidad Head to Cape Blanco

SITE SUMMARY SHEET

SITE: NC-027-A Patricks Pt. to Trinidad Head

OSPR Map #: 009

County: Humboldt

Lat/Long: 41 06'/124 10'

USGS 7.5' Quad. name: Trinidad

Rev: 07/01/96

NOAA Chart: 18600

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From Eureka, go N. on U.S. Hwy 101. Take Patrick's Point State Park exit, MP 105.926, onto Patrick's Point Drive. Parking and access available at several locations within the park. Trinidad State Beach - from hwy 101 take Trinidad exit, MP 100.644. Turn lt. onto Main St., then rt. onto Stagecoach Rd to beach. Also, from Main St. turn lt. onto Trinity St. - lt. onto Edwards St. to the beach parking area at the end of Edwards St.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Predominantly wave-cut platforms backed by gravel beaches. Pockets of fine to medium grained sand beaches. Exposed rock cliffs and many offshore rocks.

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Large seabird colonies offshore(01-12), serve as rookeries(03-09); Green Rock - >55,000, Flatiron Rock - >24,000, Pilot Rock - >2,500, Pelagic and Brandt's Cormorants > 2000. Cassin's Auklet, Western Gull, Black Oystercatcher, Fork-tailed Storm Petrel(CSC), Rhinoceros Auklet(CSC) and Tufted Puffin(CSC) also present. Common Murres >80,000; Pigeon Guillemots.

B. Mammals: River Otter, Harbor Seals, Ca. Sea Lions throughout area.

C. Fish: Juvenile rockfish nursery habitat. Coastal Cutthroat Trout (CSC)(01-12) and Steelhead Trout (FSS) may be present in coastal streams throughout area. Anadromous when streams flow to ocean.

ARCHAEOLOGICAL CONCERNS: Yes.

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Wildlife, Inland Fish and Marine Division

(707) 445-6493

Ca. State Parks

(707) 445-6547x11

City of Trinidad

(707) 677-0223

National Marine Fisheries Service, Joe Cordaro

(562) 980-4017

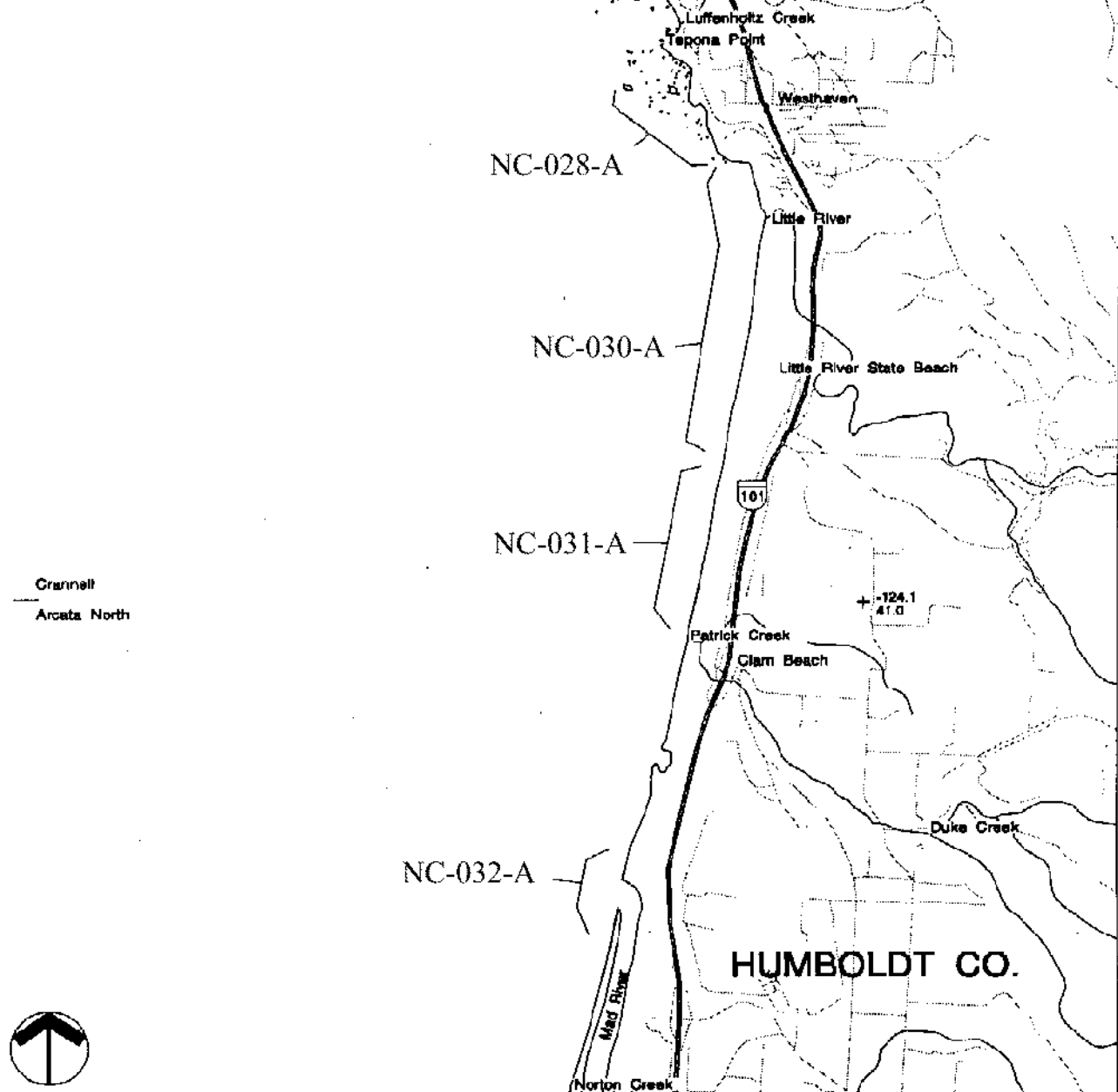
Humboldt County Sheriff's Dept. (24 hr.)

(707) 445-7251

Ca.DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

MAP 010-011



ENVIRONMENTAL SENSITIVITY RANKING



- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993



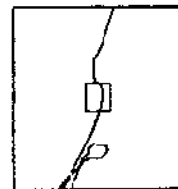
SEASONALITY

SCALE = 1:38743



ALBERS PROJECTION - NORTH AMERICAN DATUM OF 1927

INDEX MAP



This map includes USGS quad sheets of Grannell and Arcata North

The comparable NOAA nautical chart is Point Arena to Trinidad Head

SITE SUMMARY SHEET

SITE: NC-028-A Trinidad Bay and
McConnahas Mill Creek

County: Humboldt
USGS 7.5' Quad. name: Crannell

OSPR Map #: 010-011

Lat: 41 02'30" N
Long: 124 07'30" W
Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From Eureka, go north on U.S. Hwy 101. Exit at Trinidad MP 100.644 and turn left onto Main St. Turn left again (road next to Salty's) onto Scenic Dr. Various access points along this road from footpaths. Launching facilities are available at Trinidad Harbor. Continue on Main St and turn left onto Trinity St. Turn left from Trinity St. onto Edwards St. The harbor is at the east end of the parking area.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Minor tidal inlet at McConnahas Mill Creek. Offshore rocks. Rocky headlands. Fine to medium grain sand beaches. Some gravel beaches.

Response category 2. Easily accessed site. Distant (20+ mi) from pre-staged equipment

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Seabirds colonies throughout area(01-12). Serves as rookeries(03-09). See site NC-027-A for species in area. Double-crested Cormorant(CSC)(01-12), California Brown Pelican(FE,SE)(04-11).

B. Mammals: River otters, Harbor Seals, Sea Lions, Porpoises

C. Fish: Anadromous salmonids: Coastal Cutthroat Trout(CSC) and Steelhead Trout(FSS) may be present in coastal streams throughout area. Spawns in coastal streams and creeks in area. Nursery habitat for juvenile rockfish and Surfperch spawning (04-06).

ARCHAEOLOGICAL CONCERNS: Yes.

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Wildlife, Inland Fish and Marine Div
Ca. State Parks
Humboldt County Sheriff's Dept. (24 hr.)
Ca. DFG - OSPR Dispatch (24 hr.)
National Marine Fisheries Service, Joe Cordaro

(707) 445-6493
(707) 445-6547x11
(707) 445-7251
(916) 445-0045
(562) 980-4017

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SITE SUMMARY SHEET

SITE: NC-030-A Little River Beach

OSPR Map #: 010-011

County: Humboldt

Lat/Long: 41 01'124 06'30"

USGS 7.5' Quad. name: Crannell

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From Eureka, go north on U.S. Hwy 101. Take Westhaven Drive exit MP 98.003. Turn left under freeway and left again onto Scenic Drive. Continue to Merryman's Restaurant and turn right on unnamed road. Road ends at mouth of Little River and parking lot. Heavy equipment can access the beach from the parking lot.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Tidal inlet. Fine to medium grain sand beach. Exposed tidal flat. Salt water marsh.

Response category 1. Easily accessed site. Close to pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Shorebirds, Seabirds, Snowy Plover(FT)(01-12) - Critical nesting period(04-07). Nests directly on sand within dunes.

B. Fish: Anadromous salmonids: Coho(FT) and Chinook(CSC) salmon, Steelhead(FSS) and Coastal Cutthroat(CSC) trouts. Surfperch also present (04-06).

- spawning runs(08-06)
- juveniles/smolts(04-07)

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Wildlife Div.

(707) 445-6493

Ca. State Parks

(707) 445-6547x11

Humboldt County Sheriff's Dept. (24 hr.)

(707) 445-7251

Ca. DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

SITE SUMMARY SHEET

SITE: NC-031-A Clam Beach

OSPR Map #: 010-011

County: Humboldt

Lat/Long: 41 00'/124 07'

USGS 7.5' Quad. name: Crannell

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From Eureka, go N. on Hwy 101. Take Clam Beach County Park exit. Turn left under freeway overpass and then continue left on Clam Beach County Park Road. Parking areas available on the west side of the road.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

See RPI Tidal Inlet Study. Fine to medium grain sand beaches. Small tidal inlets at Strawberry and Patrick Creek

Response category 6. Site where immediate response is probably not necessary. Minimal damage would occur, but this does not preclude the need to clean after impacts.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Fish: Coastal Cutthroat trout(CSC) present in Patrick and Strawberry Creeks. These trout may be anadromous and present through beach area if creeks have enough flow.

B. Invertebrates: Pacific Razor Clams (01-12) and Dungeness Crab may bury themselves in sand in the inter and subtidal zones.

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Inland Fish and Marine Res. Div.

(707) 445-6493

Humboldt County Sheriff's Dept. (24 hr.)

(707) 445-7251

Ca. DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

MAP 012

NC-032-A → (A)

Mad River

Tyea City

Mad River Slough

HUMBOLDT CO.

Liscom Slough

+124.2
40.6

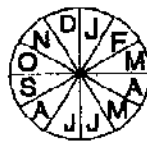


ENVIRONMENTAL SENSITIVITY RANKING



- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993



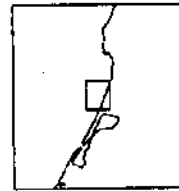
SEASONALITY

SCALE = 1:36858

0 1 2 MILES

ALBERS PROJECTION - NORTH AMERICAN DATUM OF 1927

INDEX MAP



This map includes USGS quad sheets of Tyea City

The comparable NOAA nautical chart is Point Arena to Trinidad Head

SITE SUMMARY SHEET

SITE: NC-032-A Mad River

OSPR Map #: 010-12

County: Humboldt

USGS 7.5' Quad. name: Arcata North Tyee

Lat/Long: 40 58'124 07' &
40 56'30"/124 08'

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From Eureka, go north on U.S. Hwy 101 for about 8 miles. Take Giuntoli Lane exit MP 88.618. Turn lt onto Janes Rd. Turn rt. onto Heindon Rd. Turn lt. onto Iverson Rd. Turn rt. onto Mad River Rd. and continue on this rd. to Mad River County Park. There is a boat ramp at this location. Another unimproved parking area and 4WD access to the beach is just N. of the county park area. Access to north shore difficult. CALTRANS should be contacted to open hwy guard rails near MP 94.479 to access riprap area.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Large river tidal inlet bounded on each side by fine to medium grained sand beaches. Riprap along north and northeast shoreline facing the ocean.

Response category 3. Difficult access. Close to pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Shorebirds, Wading birds, Waterfowl, Kingfishers (feeding and nesting), Raptors incl. Ospreys and Merlins (CSC), Peregrine Falcons(FE,SE); all(01-12). California Brown Pelican(FE,SE)(04-11) Snowy Plover(FT)(01-12) - critical nesting period (04-07). Nests directly on sand within dunes.

B. Mammals: Harbor Seals, Sea Lions feed in the estuary

C. Fish: Anadromous salmonids: Coho(FT) and Chinook(CSC) salmon, Steelhead(FSS) and Coastal Cutthroat(CSC) trouts:

- spawning runs(08-06)
- juveniles/smolts(04-07)

Redtail Surfperch spawn on outer beaches (04-06).

D. Inverts: Dungeness crab nursery

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Wildlife, Inland Fish and Marine Div
Humboldt County Parks
Humboldt County Sheriff's Dept. (24 hr.)
Ca. DFG - OSPR Dispatch (24 hr.)
National Marine Fisheries Service, Joe Cordaro

(707) 445-6493
(707) 445-7651
(707) 445-7251
(916) 445-0045
(562) 980-4017











SKETCH FOR SITE INFORMATION AND SPILL RESPONSE STRATEGY

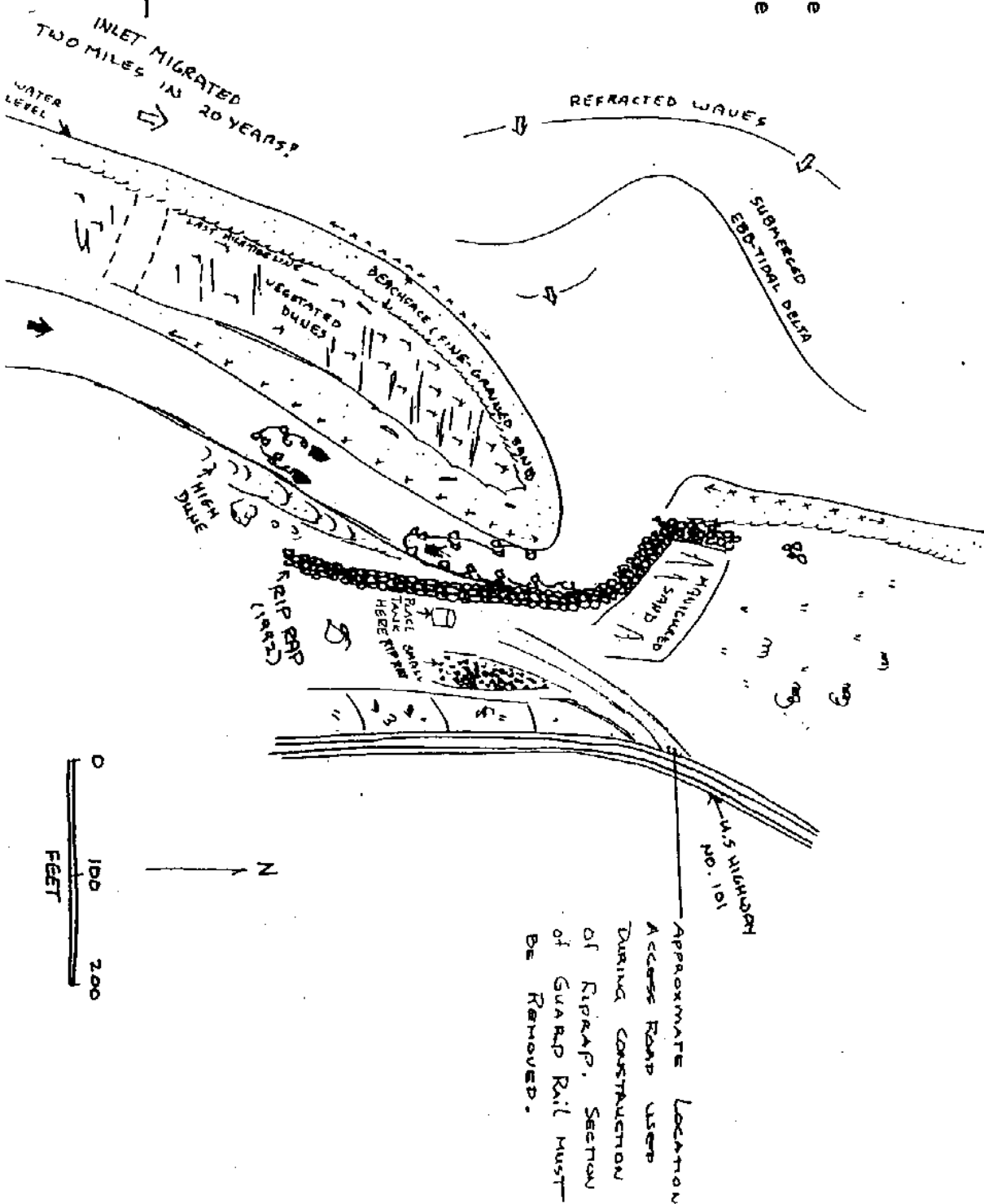
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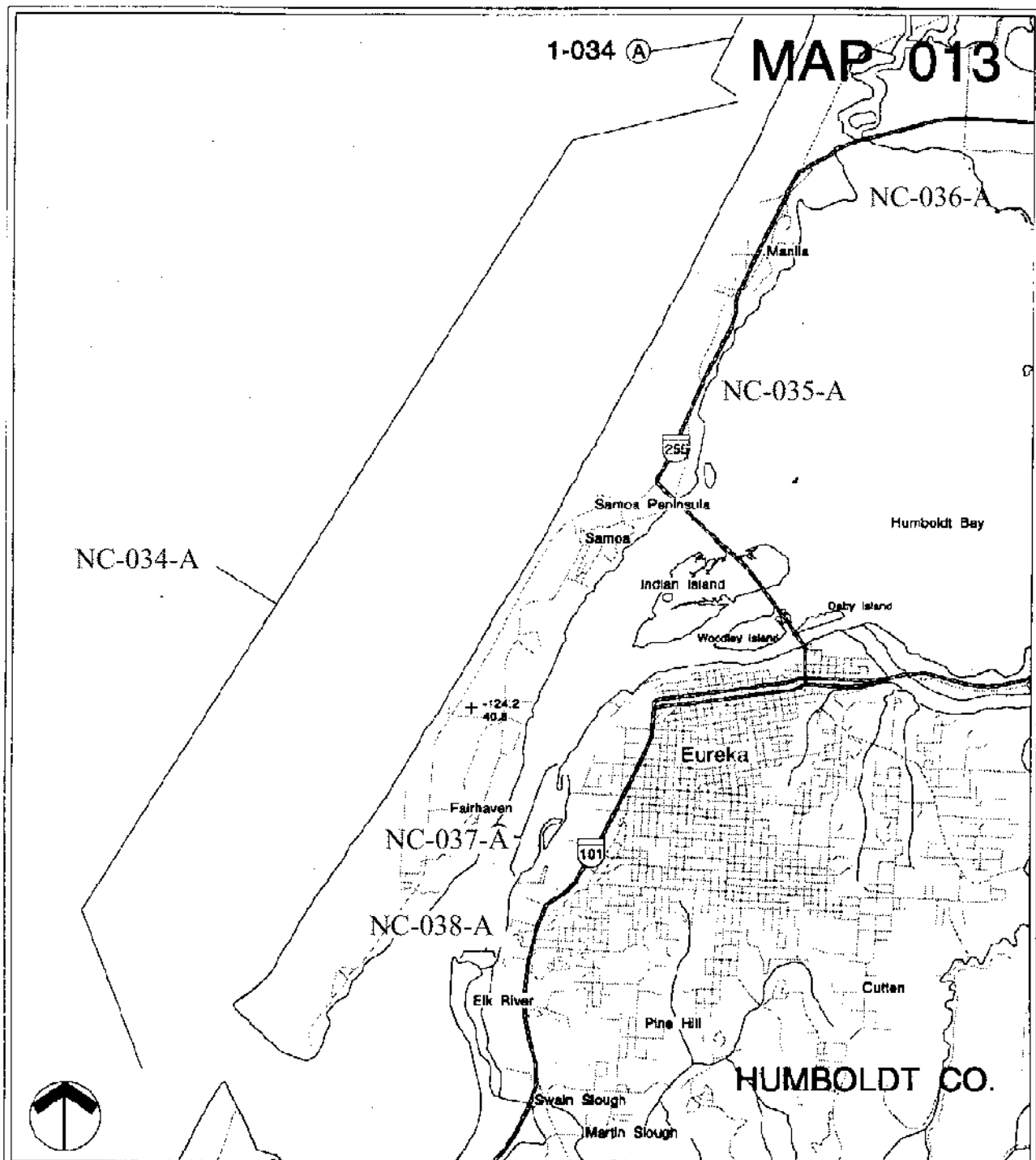
CHECK-LIST

- North arrow
- Scale
- High-Tide Line
- Low Tide Line
- substrate type

LEGEND

-  North arrow
-  Scale
-  High-Tide Line
-  Low Tide Line
-  substrate type
-  oil catchment area
-  salt-water marsh
-  fresh-water marsh
-  High-tide overwash zone
-  Last high-tide swash line

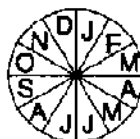




ENVIRONMENTAL SENSITIVITY RANKING

- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993



SEASONALITY

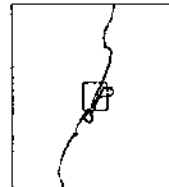


SCALE = 1:55985

0 1 2 3 MILES

ALBERS PROJECTION - NORTH AMERICAN MAP OF 1927

INDEX MAP



This map includes USGS quad sheets of Eureka

The comparable NOAA nautical chart is Humboldt Bay

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HUMBOLDT BAY GEOGRAPHIC RESPONSE PLAN

An insert to the Northcoast Area Contingency Plan and a removable field guide to be used during an oil spill response.

CONTENTS:

Important information to record.....pg	84
Introduction to Humboldt Bay.....pg	85
Useful contacts.....pg	87
Tabular response summaries.....pg	89
Bay access.....pg	92
Maps showing Response strategy suggestions.....pg	93
Additional response strategy information.....pg	103

IMPORTANT INFORMATION - Please complete this page and make a copy for the situation unit before going into the field

Spill Name: _____

Your name: _____ Organization _____

phone _____ cell _____ pager _____ radio call sign _____

Your Assignment _____

EMERGENCIES: Highway, sheriff, police, medical.....911

location or person	phone #	cellular #	pager #
<small>your supervisors name</small>			
command center			
operations			
planning			
logistics			
safety officer			

Questions regarding this plan should be referred to E. W. Lesh or Linda Broadman at 707.441.5752 or FAX 707.441.5753

HUMBOLDT BAY GEOGRAPHIC RESPONSE PLAN

INTRODUCTION

General Description: Humboldt Bay is a large tide-driven coastal lagoon with very little freshwater input. The Bay is separated from the ocean by long sand spits with an entrance channel artificially stabilized by concrete dolosse. The Bay consists of three segments: 1) North Bay (Arcata Bay); 2) South Bay; and, 3) Entrance Bay/North Bay Channel. North and South Bays are both characterized by extensive tidal mud flats with more than 1/2 of each exposed at low tides. They are extensively interlaced with drainage channels and have important wildlife and commercial mariculture value. The Entrance Bay/North Bay channel area is a relatively narrow, deeper central area, and is the industrialized portion of the shoreline.

Currents: The circulation of Humboldt Bay water is almost entirely tidally driven. South Bay's water exchange rate amounts to 60% of its Mean High Water (MHW) volume, and North Bay's rate of exchange averages 44% of its MHW volume. Measurements have shown that 75% of the water entering and exiting North Bay passes through the Samoa Channel. Complete water exchange estimates vary, but 14 tidal cycles, or about 7.5 days, seems likely.

These large volume exchange rates result in high-velocity tidal currents. The following data were obtained from Boyd, et al., 1992 and were reported as unpublished data, but seem supportable based upon the experience of mariners on the Bay.

North Bay channel.....3.0kts
Entrance to South Bay.....2.0kts
Entrance Channel.....3.3kts
Eureka Inner Reach.....1.0kts

Because 75% of the water entering North Bay does so through the Samoa Channel, it seems likely the currents here approach 3 knots.

Hydrology: Freshwater discharge into the bay represents very little of the daily tidal exchange and probably has only a localized effect (Boyd, et. al.). Surrounding foothills provide a small drainage basin of about 222 sq mi (578 km²), with 85% of the water draining to either North Bay, or to Entrance Bay/North Bay channel from the Elk River. About 12% falls as precipitation directly on the Bay and the remainder is runoff into South Bay. Salinity transects done following heavy rainfall have shown most freshwater runoff from North Bay streams to be discharging to the center of the Bay via the inner reach from North Bay. Elk River runoff was quickly mixed with Bay water near Elk River. Only minor depressions in salinity could be found in transects done in South Bay and at the location where South Bay meets Entrance Bay.

Humboldt Bay tides are called mixed tides because there is a major low, a minor high, a minor low, and a major high tide (not necessarily in this order) within each approximate 25 hour period. Greatest current velocities occur during changes from major high to major low or vice versa. **All response supervisors should have tidal prediction charts to ensure personnel safety and to aid in response activities.**

RESPONSE: Response to any oil spill on Humboldt Bay must be a coordinated, pre-planned attack to contain and recover the oil as close to the source of the spill as possible. If the source of a spill is in Entrance Bay/North Bay Channel, this may be the only way to protect both North and South Bays. The characteristics described for North and South Bays make spill response operations within these two areas

of the Bay almost impossible except for some tidal inlets accessible by highways along the margins of the Bay. Neither North Bay or South Bay has a good location where oil can be collected and recovered and water depths are generally insufficient for on-water collection.

Oranges, used as drogues to gauge the trajectory of oil spilled in Humboldt Bay, have shown that it is unlikely oil spilled at the beginning of a flood tide in Entrance Bay, or even at the Chevron bulk fuel plant, would reach North Bay during the first flood tide cycle. It is likely to be carried into South Bay on the first tide cycle if the incident were to occur along the South Jetty. It is likely that it would also enter Elk River on the first flood tide cycle for any incident that occurred at the South Jetty or in Entrance Bay. Spilled oil would not likely reach small stream inlets to North or South Bay until several tide cycles had passed.

On successive tides most oranges became stranded along the western shoreline of the Bay between the Samoa bridge and the USCG boat station. A few stranded in the vicinity of Palco Marsh. If these had been a stranded persistent type oil, they would have been refloated by successive tides and transported towards North Bay.

This geographic response plan recommends a timely and orderly progression of steps that can be taken to contain and recover as much oil as possible within the industrialized portions of the Bay, protect those sensitive wildlife habitats adjoining this part of the Bay, and begin setting-up protective strategies for North and South Bays. These strategies are meant to serve as a guide that will help drive response planning before a spill has occurred and during the early stages of a spill. The strategies should be modified to fit environmental conditions (predicted tide heights, stage of tide, wind, amount of freshwater runoff, etc.) extant at the time of the spill.

This plan does not deal with the most immediate concerns of human health and safety, stopping the spill at its source, and containment at the source. Individual response plans deal with these issues.

The following table describes, in some detail, what can be done once oil is in the water. It sets priorities for response at specific locations, explains the objective for the response, and lists the obvious, but not all, equipment needs. Maps of the Bay showing recommended response locations, and blank maps for responder use, follow. I believe these strategies will help to contain spilled oil within the developed part of the Bay (our primary objective) and help to prevent it's spread to North (Arcata) and South Bays.

These same strategies and their order of implementation can be effective at any stage of either a flood, or ebb tide, for any incident occurring between the entrance channel and Chevron's marine terminal, the likely route on which a large incident would occur. Oil spilled at or near the entrance can be expected to reach areas identified with the numeral '1' on the first flood tide after the spill. Those areas numbered '2' should encounter oil on the second flood tide. Those numbered '3' should encounter oil on the 3rd, or subsequent, flood tides.

USEFUL CONTACTS

NAME	PHONE NUMBER	24 HOUR NUMBER
Arcata Police Dept	822-2428	822-2424
Caito Fisheries	443-0550	441-4054(EurekaPD)
California Dept of Fish and Game	(916) 445-0045	(916) 445-0045
California Highway Patrol	822-5981	445-6663 24hr
Chevron	444-7850	441-4054(Eureka PD)
City of Arcata	822-5951	822-2424(Arcata PD)
City of Trinidad	677-0223	677-0133
City of Eureka	441-4206 or 4187	441-4054(Eureka PD)
Clean Pacific Alliance	268-0577 444-5184 (pager)	444-5184 (pager) 1-800-593-4272
Coastal Commission	415-904-5245	415-904-5245
Coast Seafood	442-2947	442-3779
Emerald Pacific Seafoods	fax 839-3465	499-0517
Eureka Fisheries	443-1673	441-4054(Eureka PD) 445-7251(Sheriff)
Eureka Police Dept.	441-4060	441-4054
Humboldt Bay Harbor Recreation and Conservation District	443-0801	444-4110pgr
Humboldt County Office of Emergency Services	268-2500	445-7251 (Sheriff)
Humboldt County Environmental Health	445-6215	445-7251 (Sheriff)
Humboldt County Sheriff	445-7251	445-7251
Humboldt Fisherman's Marketing Association	443-0537	-----
Humboldt State Trinidad Marine Lab	826-3671	826-3456

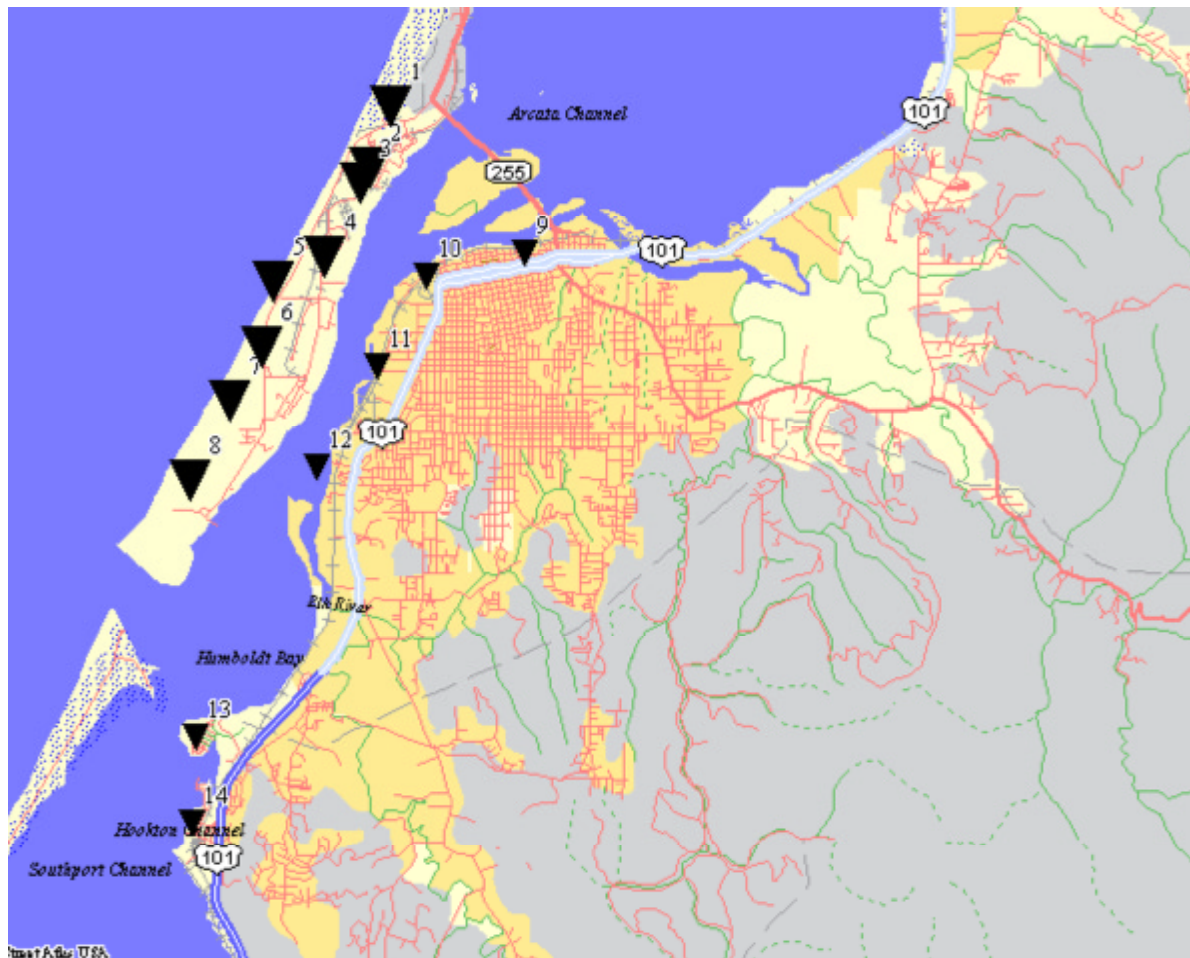
Kuiper Mariculture	822-9057	822-5102
Louisiana Pacific Corp.	443-7511	443-1851Emerg
Marine Spill Response Corp	(510) 215-1833	1-800-259-6772
Northbay Shellfish	839-4723	839-4723
Other Docks	441-4060(Eureka PD) 445-7251(Sheriff)	441-4054(Eureka PD) 445-7251(Sheriff)
Pacific Choice Seafoods	442-2981	441-4054(Eureka PD)
PG&E	444-0700	444-0712
Sierra Pacific Industries	443-3111	445-7251(Sheriff)
Simpson Corporation		443-9042 (Fire)
Table Bluff Tribal Council	733-5055	733-5055
US Fish and Wildlife Refuge	733-5406 / 443-2602	443-2602
USCG Boat Station	443-2213	443-2213
USCG Air Station	839-6113	839-6113

Tabular Response Summaries: Response priority, location, objective, equipment needed.			
Priority 1 = first tide cycle; priority 2 = second tide cycle; priority 3 = third tide cycle.			
Priority	Response location	objective	Amounts and type
1 – Entrance Bay North Bay Channel South Bay Channel	Palco Marsh (NC-37-A)	Install pre-fitted splash boards into slots in Marsh water control structure. Insure that tide gates at Del Norte Street water structure are not blocked with debris	Splash boards stored at Chevron. Keys to Marsh area gates at Chevron and City of Eureka. shovels, boathook, pry-bar, pitchfork
	Elk River Marsh (NC-38-A)	close drop gates to prevent oil from entering culverts leading to marsh.	Key to chain locks on control wheels available at Chevron and City of Eureka. Route: exit U.S. Hwy 101 at Herrick Ave. About 4 miles S. Of Eureka. Go west to gravel parking area. Follow trail to railroad track. Follow track to Elk River. Turn up-river for about 100 yards
	NATURAL COLLECTION SITES (NC-34-A) Coast Guard Cove, Samoa boat station, Samoa boat ramp area and any other areas where oil collects and can be contained and recovered.	Divert oil to a shoreline area such as a cove where oil and debris tends to collect naturally. Place boom in a way that will contain oil from spreading during tide changes and at slack and that will allow recovery to be done by skimmer or vacuum truck.	Expect to work two locations with two crews. 4 work boats 2000' hard boom. 2000' sorbent boom or equal 10 anchors of appropriate type and weight 2 crews of about 6 persons each 2 skimmers and associated equipment or 2 vacuum trucks with appropriate hose end for skimming oil.
	Bay channels (Entrance Bay, North Bay channel, South Bay channel)	recover as much oil as possible to reduce shoreline impacts.	SBS. VOSS
1 - Samoa Channel Note: Current exceeding 3 kts in Samoa channel makes deployment of equipment difficult	Indian Island (NC-35-A) Note: Very high archaeological and biological importance.	Deflect oil away from Indian Island. Lay boom along shoreline of island, <u>parallel</u> with the current, from near southern tip to skimmer near Samoa bridge. Intent is to keep oil from going ashore on Indian Island. Try to keep it within Samoa channel and direct it towards skimmer at Samoa Bridge on flood tide.	3500' hard boom. 3500' sorbent boom or equivalent in pads or sweep. 4 work boats 10 workers 10 anchors
	Louisiana Pacific Lumber Dock (NC-35-A)	Recover oil by diverting to shore from Samoa Channel to skimmer at LP dock. Current velocity is high. Exercises have shown that boom segments should not exceed 200 - 400 feet in length. Many anchors will be needed.	2000' hard boom. 2000' sorbent boom or equal. 4 work boats 1 skimmer. 10 workers 10 anchors
	Samoa Bridge oil recovery site (NC-35-A)	place boom in V configuration during flood tide. attach boom to bridge pilings about center span. Place skimmer in apex. Tie-in with boom from Indian Island. Change configuration to S. Side of bridge during ebb tide, if appropriate.	1200' hard boom. 1200' sorbent boom or equal. 2 work boats. 4 workers 1 skimmer. Note that floating eel grass mats will tend to plug skimmer at this location.

1 - South Bay	Buhne Point to South Bay Boat Works (NC-40-A)	Recover oil by diverting to shore. This may be possible in the area of King Salmon near Humboldt Bay Forest products Wharf or small boat launching ramp. On water recovery with VOSS or SBS in Southport channel may be possible.	1200' hard boom. 1200' sorbent boom or equal. 1 skimmer. 5 anchors. 2 work boats. 10 workers SBS or VOSS
2 - Center Bay	Mouth of Elk River (NC-38-A)	Recover oil. Prevent oil from being carried up-river with flood tide. This site may be appropriate as a collection site for spills occurring near the entrance channel or entrance Bay.	1400' hard boom. 300' IT boom. 1400' sorbent boom or equal. 5 anchors. 1 skiff. 1 skimmer. 10 Workers.
2 - islands and Inner reach	Southern tip of Indian Island to Woodley Island (NC-35-A).	Deflect oil from tip of Indian Island to skimmer at Southern tip of Woodley Island. Deflect oil from Eureka side of inner reach to skimmer at Woodley island	1200' hard boom. 1200' sorbent boom or equal. 1 skimmer 5 anchors. 10 workers 1 skiff
3 - North Bay	Mad River Slough (NC-36-A)	Prevent oil from being carried into slough.	1200' hard boom. 1200' sorbent boom or equal. 100 ft IT boom 6 workers hand tools to incl sledge hammer, stakes, shovels
	Jacoby Creek (NC-35-A)	Prevent oil from being carried into creek.	500' hard boom 100' IT boom 500' ft sorbent boom or equivalent 6 workers hand tools to incl sledge hammer, stakes, shovels
	Gannon Slough (NC-35-A)	Prevent oil from being carried into creek	500' hard boom 100' IT boom 500' sorbent boom or equivalent 6 workers hand tools to incl sledge hammer, stakes, shovels
	Butcher Slough (NC-35-A)	Prevent oil from being carried into creek	300' hard boom 50' IT boom 300' sorbent boom or equivalent 6 Workers hand tools to incl sledge hammer, takes, shovels
	Mcdonald Slough (NC-35-A)	Prevent oil from being carried into creek	150' hard boom, 50' IT boom, 150' sorbent boom or equivalent, 6 workers hand tools to incl sledge hammer, stakes, shovels
	Eureka Slough (NC-35-A)	Prevent oil from being carried into slough. Possible location for oil recovery	1000' hard boom, 200' IT boom, 1000' sorbent boom or equivalent, 10 workers hand tools to incl sledge hammer, stakes, shovels

3 - South Bay	White Slough and Salmon Creek (NC-40-A). oil Impacts are unlikely at these locations. Bird nesting sites at Salmon Crk. Are at risk from oiling should oil reach this far into S. Humboldt Bay	Prevent oil from being carried into creek or slough.	Use helo deliverable boom as drilled by USCG. 400' hard boom
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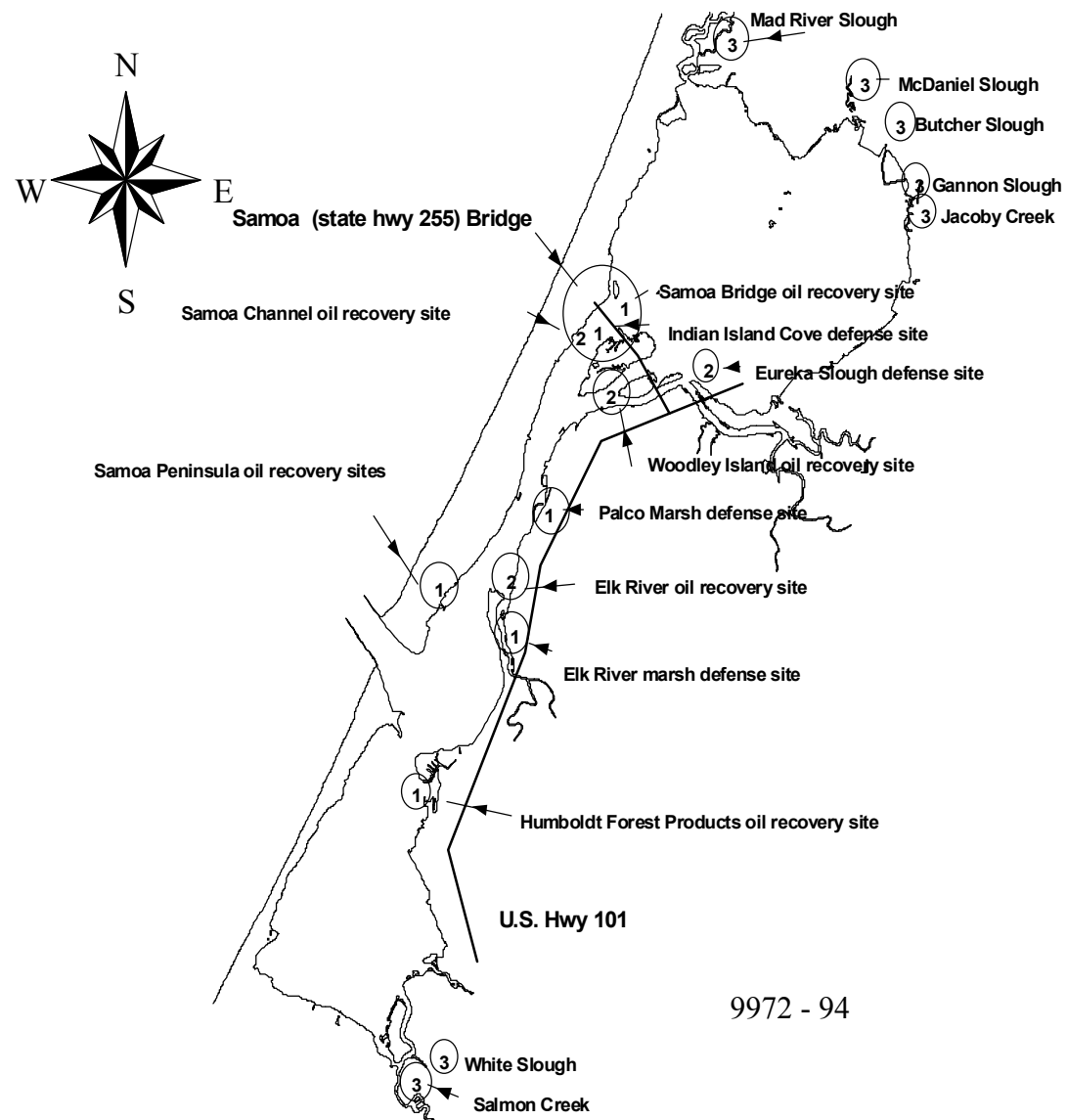
<p>Access to Bay - See next page for key</p>



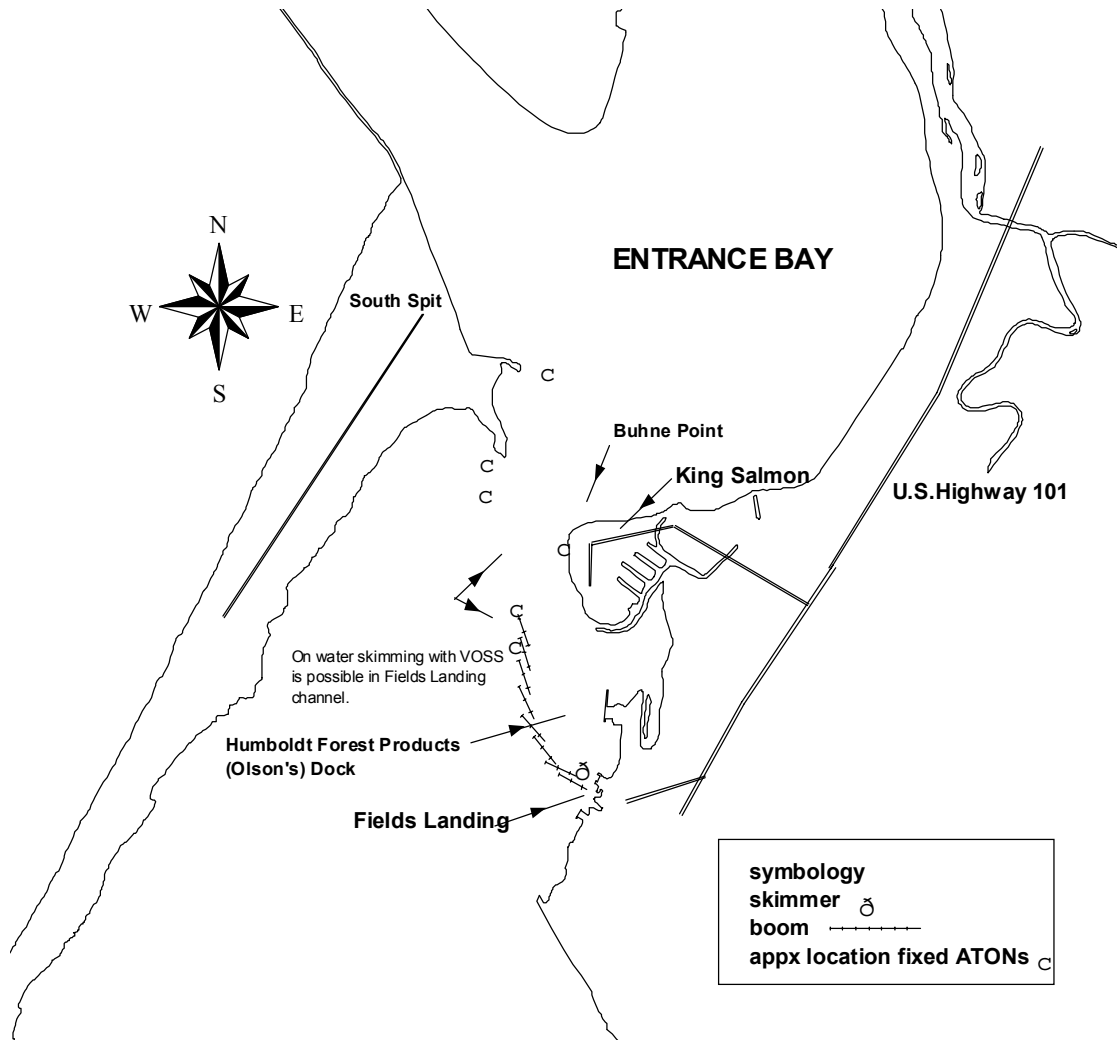
Waterfront Access for Spill Response(numbers refer to map on previous page)

1. Louisiana Pacific Corp. Samoa Wharf. Take L-P Drive off New Navy Base Rd.
2. Louisiana Pacific Corp., Samoa chip Wharf. Take L-P Drive off New Navy Base Rd.
3. Louisiana Pacific Corp., chip wharf (formerly North Coast Export Co.). Take L-P Drive off New Navy Base Rd.
4. South Bay Marina, Samoa division, marine ways. Bay St. off New Navy Base Rd.
5. Simpson Paper Co., wharf. Plant is currently closed. 2nd right turn off Bay St., off New Navy Base Rd. leads to 24 hour gate with guard.
Clean Pacific Alliance barge and tug located at this wharf. Good staging area with easy access from town of Fairhaven. See gate guard. Fire Dept. at Fairhaven also has key to staging area.
6. Road access to beach. Left turn onto Lincoln Avenue off New Navy Base Road at town of Fairhaven, about 4 miles S. of state hwy 255 (Samoa bridge). Turn right on Duprey Street and continue to beach.
7. Humboldt County public launching ramp. Left turn off New Navy Base road about 4.5 miles S. of state hwy 255 (Samoa Bridge).
8. USCG boat station. Pier. About 5 miles S. of state hwy 255 (Samoa Bridge) on New Navy Base Road.
9. City of Eureka launching ramp. Off Waterfront Drive under Samoa bridge.
City of Eureka, K Street Pier.
City of Eureka, J Street Pier.
Nor-Cal Seafoods, I Street wharf.
Fishermans Cooperative Wharf. Foot of D and F Streets extended.
Humboldt Bay Harbor Cruise dock. Foot of C Streets extended.
Coast Oyster pier. Foot of A and D Streets extended.
Eureka Ice and Cold Storage Wharf. Foot of A Street extended.
10. City of Eureka, Commercial Street wharf. Foot of Commercial Street.
City of Eureka, Small craft harbor and launching ramp.
City of Eureka, Humboldt Dock B. Foot of Washington Street extended north.
Pacific Affiliates Dock. Foot of Washington Street extended south.
Unocal Eureka Wharf. Foot of 14th street extended north.
Eureka Forest Products wharf. Foot of 14th street.
11. City of Eureka, Del Norte Street public fishing pier. Foot of Del Norte Street.
12. Chevron USA, Eureka wharf. Foot of Truesdale Street.
13. King Salmon. Private launching facilities. Shoreline access. King Salmon exit from US Hwy 101 about 2 miles S. of Eureka.
14. Humboldt Bay Forest Products wharf. G Street, Fields Landing.
South Bay Marina Fields Landing Pier.
Eureka fisheries wharf G Street, Fields Landing.
Public Launching ramp. Railroad Ave, Fields Landin
Humboldt Marine Services wharf.
Depot Road, Fields Landing.

Response Locations and Priorities (1, 2, 3)



Response Strategy
Buhne Pt/King Salmon
Humboldt Forest Products Dock
Priority 1



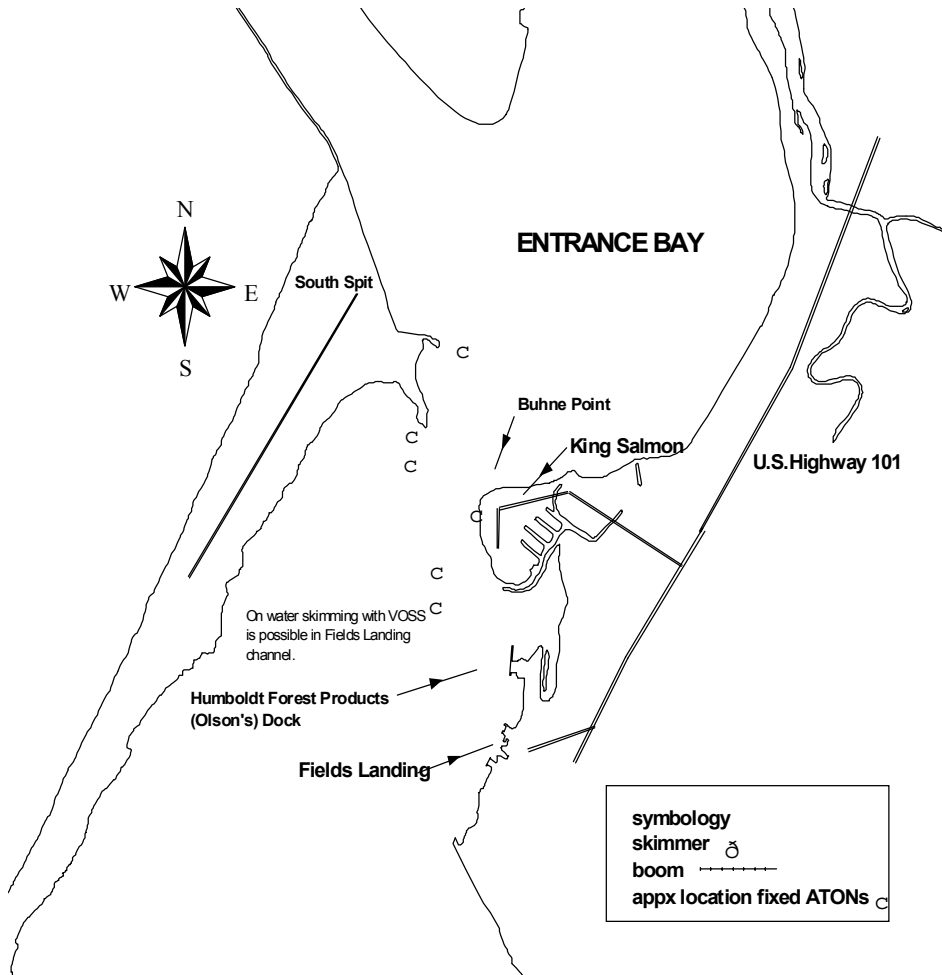
Route to South Spit:

Contact Humboldt County Sheriff's Dept. for the key to gated access. Fr US hwy 101, about 5 mi S of Eureka, turn W on Hookton Rd. Continue to beach. Follow rd to end of spit.

Route to Fields Landing and King Salmon:

From US hwy 101, about 2.5 mi S of Eureka, take Fields Landing exit and turn rt onto G St. Continue to Bay. Exit at King Salmon Exit and turn rt to access bayfront areas.

Response Worksheet
 Buhne Pt/King Salmon
 Humboldt Forest Products Dock
 Priority 1

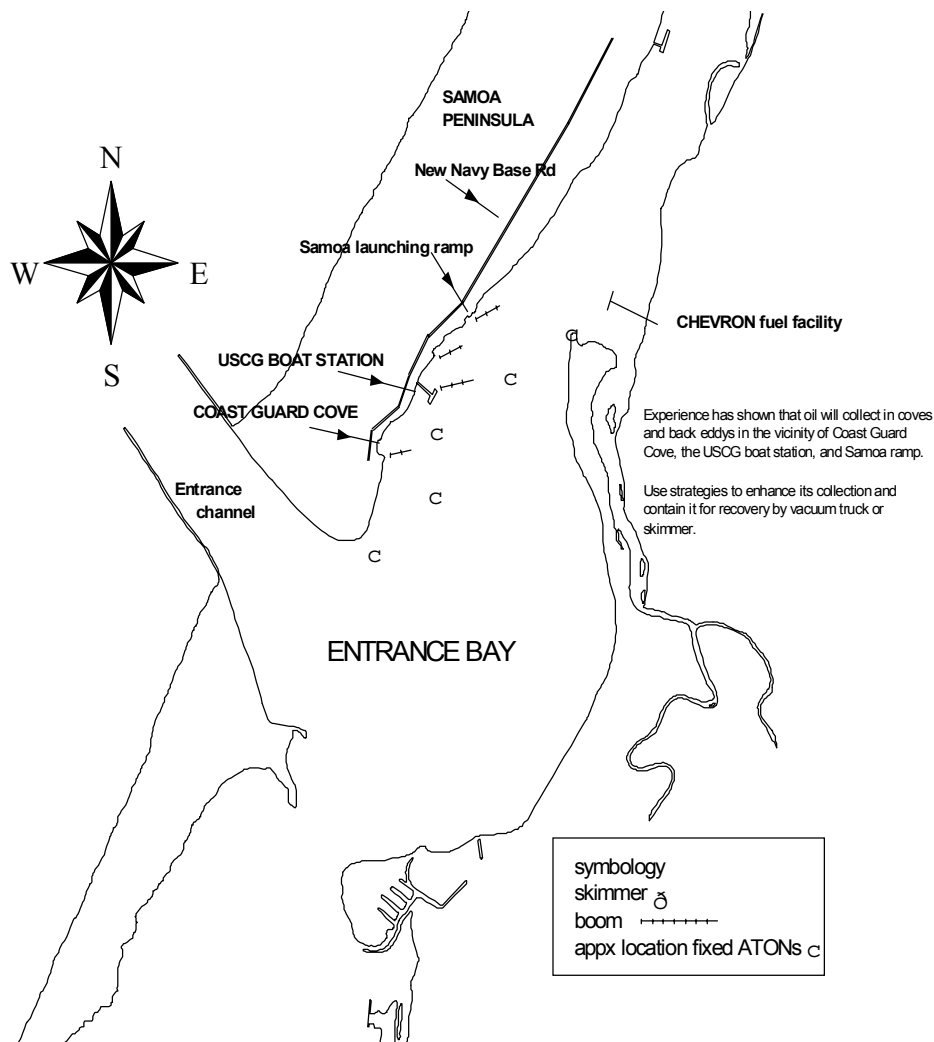


Route to South Spit:

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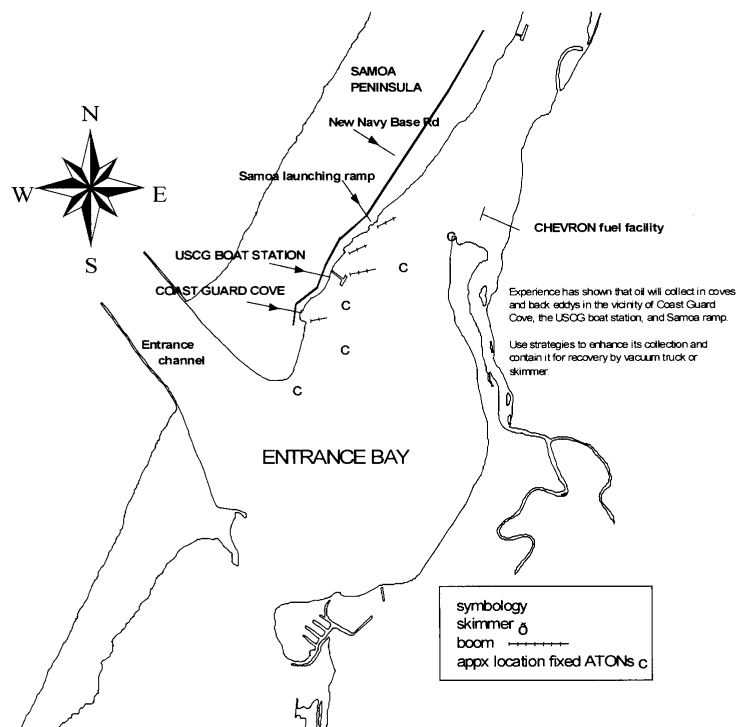
Route to Fields Landing and King Salmon: From US hwy 101, about 2.5 mi S of Eureka, take Fields Landing exit and turn rt onto G St. Continue to Bay. Exit at King Salmon Exit and turn rt to access bayfront areas.

Response Strategy
 natural collection sites for oil
 vicinity Samoa launching ramp and
 USCG boat station Priority 1



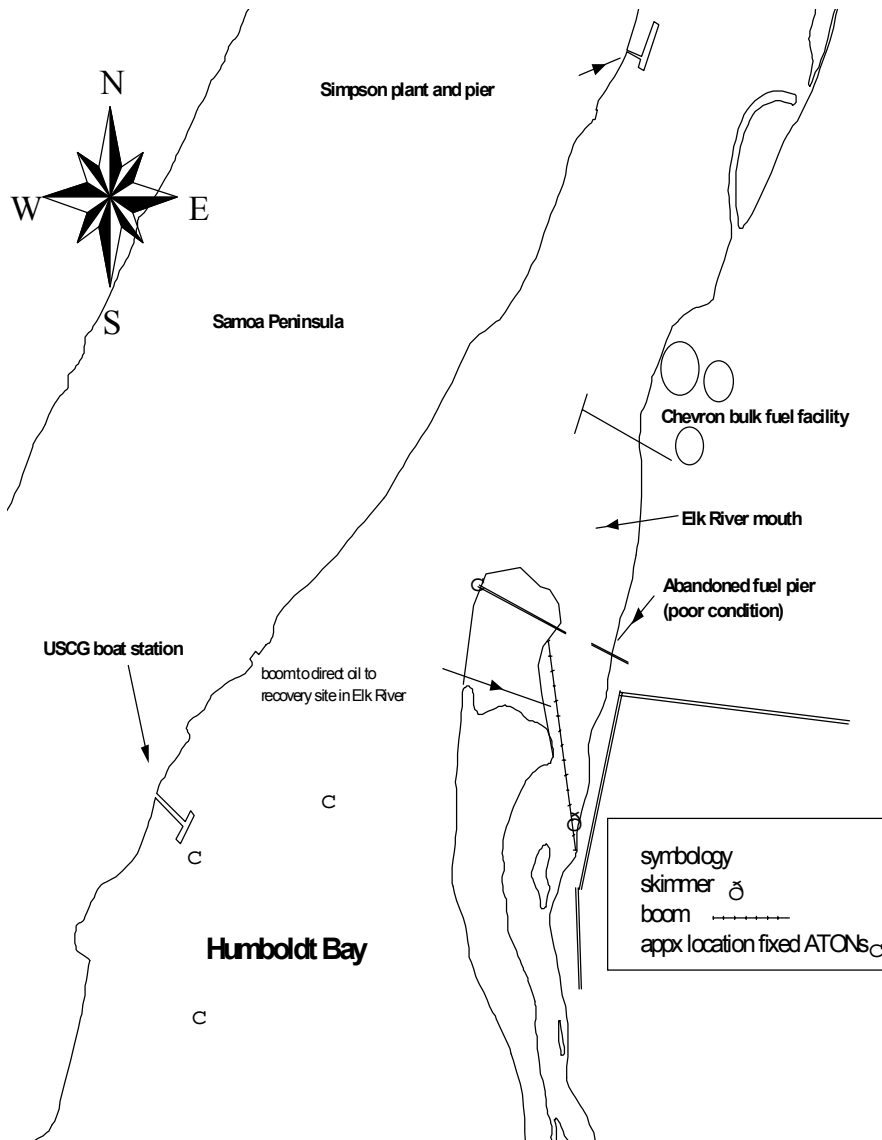
Route to Samoa ramp and USCG boat station: from US hwy 101, take state hwy 255 (R St) W across the Bay to New Navy Base Rd. Go left about 3 miles.

Response Worksheet
 natural collection sites for oil
 vicinity Samoa launching ramp and
 USCG boat station
 Priority 1



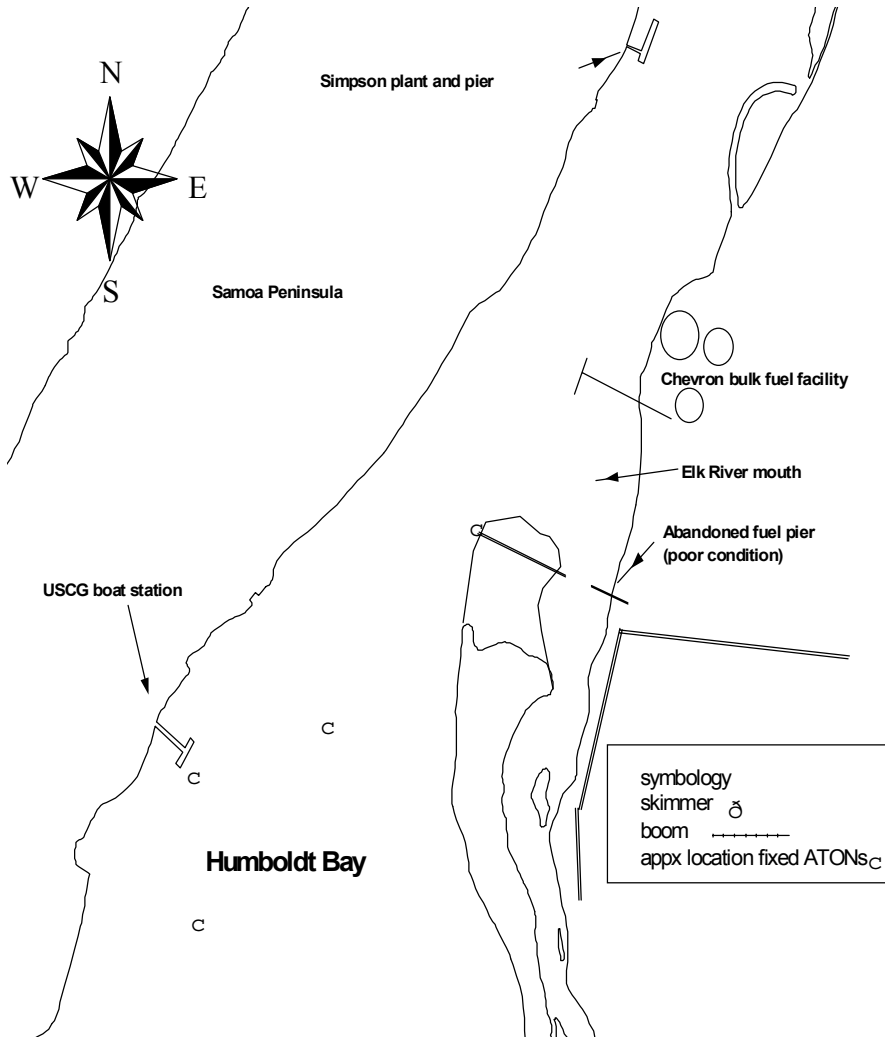
Route to Samoa ramp and USCG boat station: from US hwy 101, take state hwy 255 (R St) W across the Bay to New Navy Base Rd. Go left about 3 miles.

Response Strategy
Elk River Location
Priority Z



Route to Elk River mouth: Mouth is at the end of Hilfiker St. Hilfiker St. is west off US hwy 101 just S of Eureka. Hilfiker Pipe Co. marks the E end of the street.

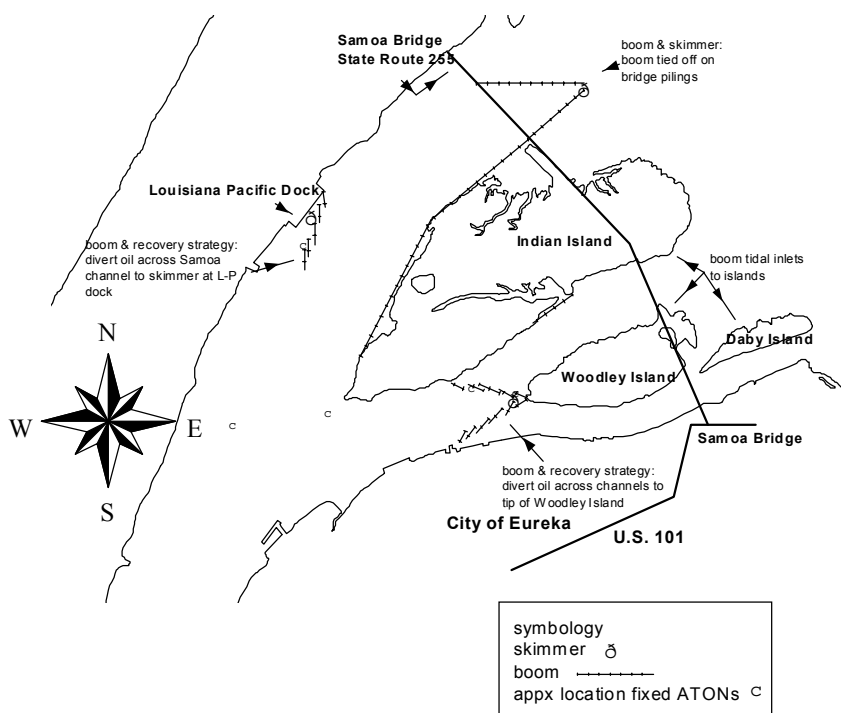
Response Worksheet
Elk River Location
Priority Z



Route to Elk River mouth:

Mouth is at the end of Hilfiker St. Hilfiker St. is west off US hwy 101 just S of Eureka. Hilfiker Pipe Co. marks the E end of the street.

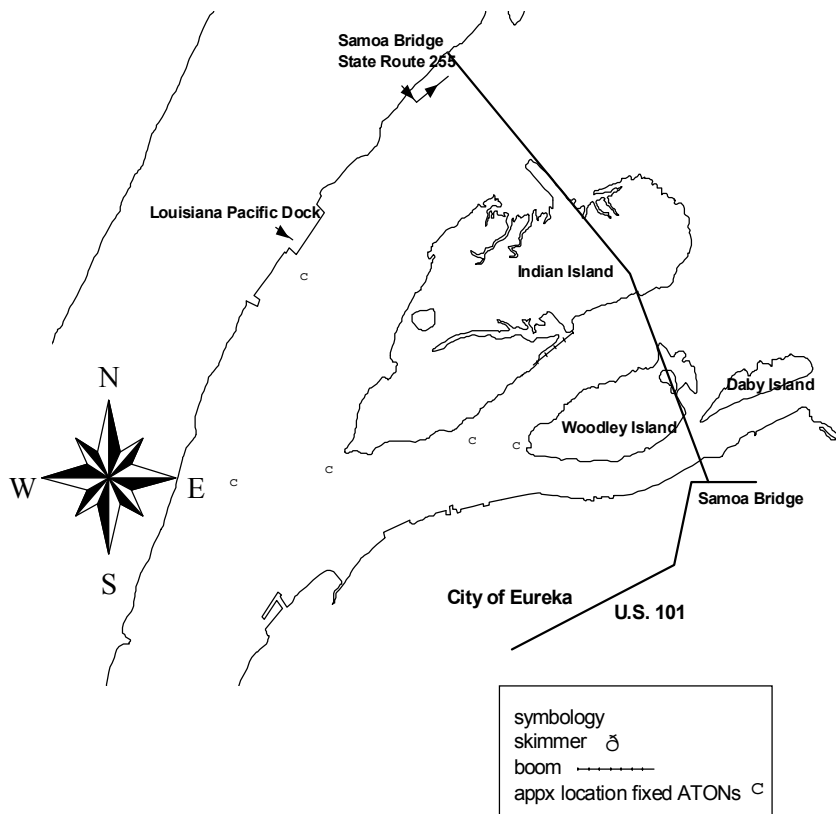
Response Strategy
 L.P. Dock/Samoa Channel
 Indian Island/Samoa Channel
 Indian Island to Woodley Diversion
 Woodley Island to Mainland
 Priority 1



Route to L.P. Dock: From US hwy 101, take state hwy 255 (R St) W across Bay to New Navy Base Rd. Turn S to L.P. Dr. Go E into L.P. mill.

Route to Woodley Island: From US hwy 101, take state hwy 255 (R St) W. Exit at Woodley Island Marina.

Response Worksheet
 L.P. Dock/Samoa Channel
 Indian Island/Samoa Channel
 Indian Island to Woodley Diversion
 Woodley Island to Mainland
 Priority 1



Route to L.P. Dock:

From US hwy 101, take state hwy 255 (R St) W across Bay to New Navy Base Rd. Turn S to L.P. Dr. Go E into L.P. mill.

Route to Woodley Island: From US hwy 101, take state hwy 255 (R St) W. Exit at Woodley Island Marina.

SITE INFORMATION AND SPILL RESPONSE STRATEGY

SITE NAME/NO. NC-034-A, Humboldt Bay Inlet and Samoa Peninsula

RESPONSE OBJECTIVE: Contain and recover oil.

RESPONSE PROCEDURE: See Humboldt Bay Geographic Response Plan.

It is important to begin response immediately because of the large tidal prism of Humboldt Bay. Nearshore water can intrude into North Humboldt Bay (Arcata Bay) with a single tidal change of six (6) feet, and, depending upon wind and weather, could carry oil with it. Response to oil intruding into Humboldt Bay should be staged as follows.

1. The vessel/facility plan should be implemented immediately. Containment of spilled products at the source should begin immediately because they will not be recoverable once they have dispersed into the 1 - 3 knot currents existing in Humboldt bay channels.
2. Alert PGE to boom the cooling water inlet to the power plant at King Salmon (Health and safety issue)
3. Close manually controlled gates to Elk River marsh. Both Chevron International and the city of Eureka have keys to the chain locks.
4. Place pre-fitted splash boards into slots in water control structure at Palco marsh. Boards are stored at Chevron and personnel here know the location for their deployment.
5. On-water skimming and recovery should begin as soon as possible. MSRC has a fully assembled and operational shuttle barge system on the Bay. Clean Pacific Alliance (CPA) has skimmers, boom, and a workboat on board the barge C. P. Sacramento.
6. Establish shoreside deflection/collection/recovery sites immediately. These are places along the Samoa peninsula, and at Elk River where oil will probably collect due to bay water circulation patterns. These include:
 - a. Coast Guard cove
 - b. U. S. Coast Guard boat station
 - c. Samoa boat launching ramp
 - d. Elk River mouth
7. Deploy harbor boom and skimming systems in South Bay channels (Fields Landing channel and Hookton channel) to recover oil before it is allowed to intrude further into the mud flats and eel grass meadows of South Bay. Oil may also be diverted to shoreside collection sites at Humboldt Bay Forest Products and at the Fields Landing launching ramp.

SITE INFORMATION AND SPILL RESPONSE STRATEGY (continued)

SITE NAME/NO. NC-034-A, Humboldt Bay Inlet and Samoa Peninsula

RECOMMENDED RESOURCES:

harbor boom (2,000'), sorbent boom (2,000') or equivalent in pads or sweep, anchors (10), work boats (4), workers (12), skimmers (2), vacuum truck (2) with appropriate hose end for recovery of oil.

STAGING AREA:

Pacific Affiliates at 'A' St. dock, Parking lot S. end Woodley I. Marina, Murray Airport, LP Corporation in Samoa, PG&E power plant at King Salmon, Humboldt Forest Products dock, any of the shoreside areas identified for deflection/collection.

An SBS is stationed by MSRC, under contract to Chevron Corporation, in the water at the Chevron bulk fuel facility for incidents that might happen at that location.

Additional SBS or VOSS deployment can be done by crane from Humboldt Forest Products dock and at Humboldt Bay Marine Services in Fields Landing.

HAZARDS:

Swift tidal currents, waves that sometimes reach inside the Bay, soft sediments, mats of algae or eelgrass that can entangle and stall outboard motors, and plug skimmers.

POTENTIAL PHYSICAL (not biological) IMPACTS FROM OIL:

Oiling of man-made structures within the Bay; oiling of riprap and dolosse that stabilize the entrance channel.

CLEAN-UP STRATEGY:

Strategy should be appropriate for the geomorphology of the site and the biological plants and organisms extant at that location. See the NOAA Shoreline Countermeasures Manual. The appropriate method will be recommended by the planning section to the Unified Command following assessment by the shoreline cleanup assessment team.

COMMUNICATIONS: cellular phones and radios work throughout the area.

SITE INFORMATION AND SPILL RESPONSE STRATEGY

SITE NAME/NO. NC-035-A, North Humboldt Bay

RESPONSE OBJECTIVE: Prevent the intrusion of oil into north Humboldt Bay (Arcata Bay) through on-water recovery and exclusionary booming at Samoa Bridge and at additional sites south of the Samoa bridge. Once oil has passed under the Samoa bridge and into North Humboldt Bay, response and clean-up will be almost impossible because of the bays shallow depths.

RESPONSE PROCEDURE: The response strategy for this area is designed to take advantage of Humboldt Bay currents and circulation on the flood tide. The faster currents and the greatest volume of water flow through the Samoa channel.

See Humboldt Bay Geographic Response Plan. Boom placement is designed to keep oil in main channels and away from shoreline impacts until it can be deflected to recovery locations at Samoa bridge, in Samoa channel, and at the tip of Woodley Island.

- 1) Deploy boom in 'V' configuration during flood tide from Samoa Bridge pilings. Place skimmer in apex. 'Tie-in' with boom from Indian Island. Change configuration to south side of bridge during ebb tide, if appropriate.
- 2) Deflect oil away from Indian Island. Lay boom along west shoreline of island, parallel with the current, from near southern tip to skimmer at Samoa bridge.
- 3) A skimmer should be placed near the tip of Woodley Island with it's east wing (boom) extended across the Inner Reach to near Coast Oyster Company. The west wing consists of boom extended in cascading, 'herring bone,' configuration across Eureka Channel to near the tip of Indian Island.
- 4) Do additional skimming in the Samoa Channel from the 'hook' of one or more deflection booms angled South into the Samoa Channel in 'J' configuration (Do not do this instead of #3, but in addition to it). The skimmers and booms should be located in the vicinity of the LP Corporation docks for recovery by vacuum trucks.
- 5) Short lengths of harbor or intertidal boom should be used to keep oil from entering the channels that intrude into the east side of Indian Island, and into Woodley Island and Daby Island.
- 6) Harbor boom, backed by sorbent boom, should be extended across Eureka Slough from the N. abutment of the Railroad bridge to the S. abutment of the Highway 101 bridge.
- 7) Be prepared to deploy harbor and intertidal boom across Jacoby Creek, Butcher Slough, Gannon Slough, and McDonald Slough.

SITE INFORMATION AND SPILL RESPONSE STRATEGY

SITE NAME/NO. NC-035-A, North Humboldt Bay (excluding Mad River Slough)

RECOMMENDED RESOURCES:

10,350' hard boom, 10,350' sorbent boom or equivalent in sorbent pads or sweep, 500' intertidal boom, 3 skimmers, 11 workboats or skiffs, anchors of appropriate type and weight (25), persons (68 - sum of all persons indicated for all locations in NC-35-A), miscellaneous hand tool such as sledge hammers and stakes for anchoring boom.

STAGING AREA:

Staging areas: Pacific Affiliates at 'A' St. dock, Parking lot S. end Woodley I. Marina, Murray Airport, City of Arcata Corporation yard, Sierra Pacific Industries, LP Corporation in Samoa, Simpson Corporation in Fairhaven (plant that has been closed).

SBS deployment can be done by crane from Humboldt Forest Products dock at Fields Landing. Humboldt Bay Marine Services in Fields Landing can also launch SBS barges and provide dock space for assembly. Use of the Eureka City dock at the foot of Commercial Street should also be investigated.

HAZARDS:

Traffic hazards and limited parking along some highways. Soft sediments and shallow depths within much of North Humboldt Bay. The flight path for Murray Airport is over North Humboldt Bay. Over head power lines parallel Highway 255 across the North end of North (Arcata) Bay.

POTENTIAL PHYSICAL (not biological) IMPACTS FROM OIL:

Penetration of light oils into invertebrate burrows. Oiling of Marsh vegetation and manmade structures associated with mariculture. Possible intrusion of oil into some Arcata oxidation ponds that are tidal.

CLEAN-UP STRATEGY:

None in marsh areas. Use sorbents wherever possible. Refer to the OSPR's 'Biological supplemental report' prepared after the Humboldt Bay oil spill incident by the vessel 'Kure' in November 1997 before considering marsh treatments.

COMMUNICATIONS: cellular phone and radios operate throughout the bay area.

SITE INFORMATION AND SPILL RESPONSE STRATEGY

SITE NAME/NO. NC-036-A, Mad River Slough

RESPONSE OBJECTIVE:

Prevent oil from being carried by the flood tide into the extensive marsh complex within the slough. Use exclusionary boom techniques.

RESPONSE PROCEDURE: See Humboldt Bay Geographic Response Plan

Working from the land, deploy boom across the mouth of the Slough. Use intertidal boom on the exposed mud flats on either side of the slough channel. Join these to harbor boom crossing the deeper channel of the slough. Use sorbent boom behind the intertidal and harbor boom to contain entrained oil. If volume of oil is of sufficient quantity use skimmer and/or vacuum truck to collect oil in apex of hard boom.

RECOMMENDED RESOURCES: See Humboldt Bay Geographic Response Plan

Harbor boom (1200'), intertidal boom (100'),
(1200'), workers (6)

Sorbent boom or equivalent

STAGING AREA:

Sierra Pacific Industries at the mouth of Mad River Slough. Boom can be deployed from Sierra Pacific and towed into place, or deployed from the state Hwy 255 bridge crossing of the Slough.

HAZARDS:

Soft sediments in the Bay and around the mouth of the slough will hamper operations. Heavy traffic on state Hwy 255 is a hazard. Traffic control should be done.

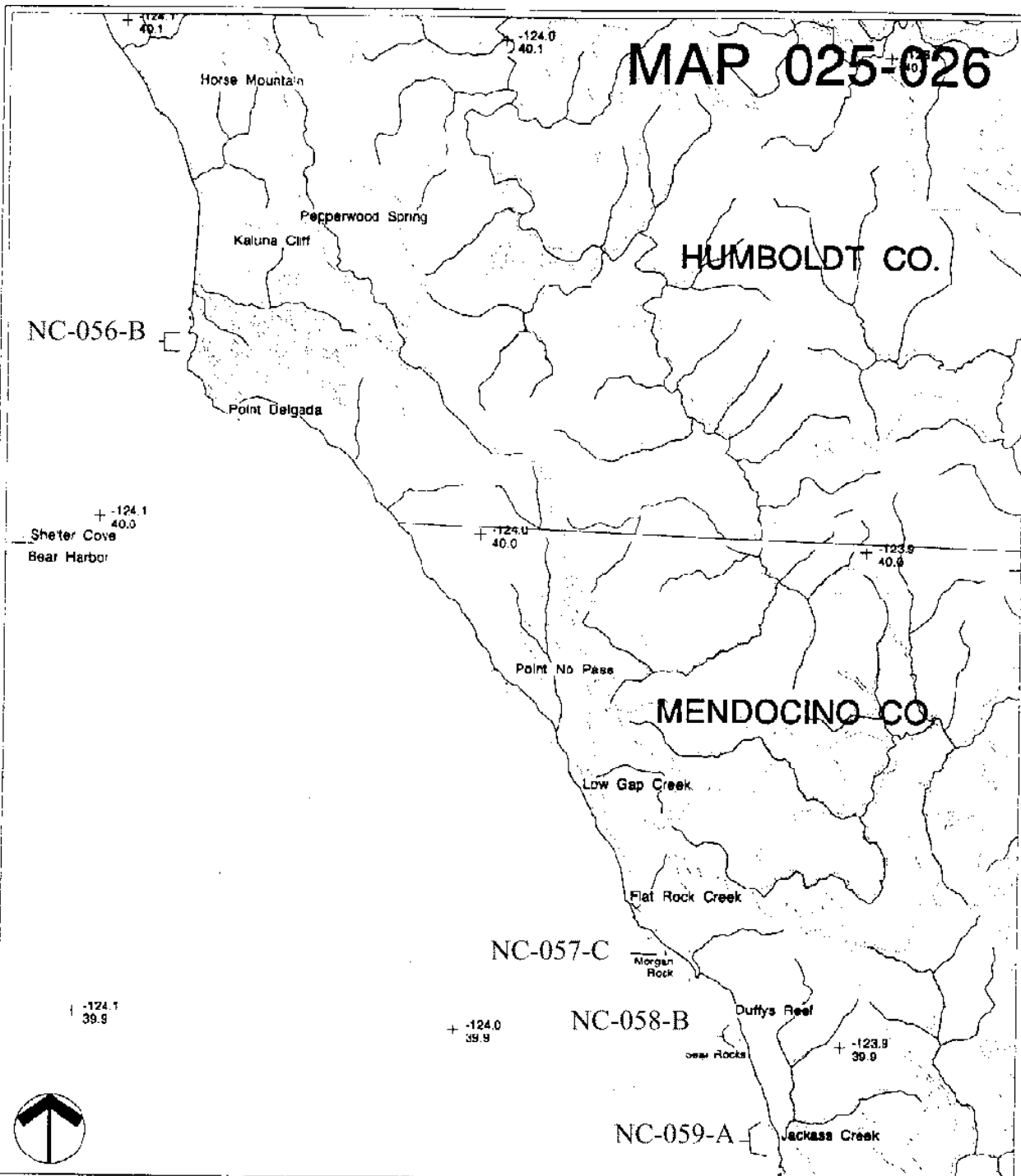
COMMUNICATIONS: Cell phone and radio communications available at this site.

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9972.4 Mendocino County Site Strategies

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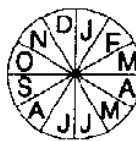


ENVIRONMENTAL SENSITIVITY RANKING



- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993



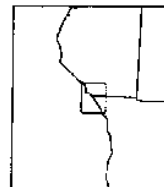
SEASONALITY

SCALE = 1:93650

0 1 2 3 4 5 MILES

ALBERS PROJECTION - NORTH AMERICAN DATUM OF 1927

INDEX MAP



This map includes USGS quad sheets of Shelter Cove & Bear Harbor

The comparable NOAA nautical chart is Point Arena to Trinidad Head

SITE SUMMARY SHEET

SITE: NC-057-C **Morgan Rock**

OSPR Map #: 025-026

County: Mendocino

Lat/Long: 39 55'/123 55'30"

USGS 7.5' Quad. name: Bear Harbor

Rev: 07/01/96

NOAA Chart: 18620

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Inaccessible from land. Near Bear Harbor, about 10 miles S.of Pt. Delgada. Nearest road is Bear Harbor Road off Usal Road.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Offshore rock. Lies about 500 feet offshore

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Pacific Harbor seal haul-out areas(01-12).

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca DFG, Fort Bragg Office

(707) 964-9078

National Marine Fisheries Service, Joe Cordaro

(562) 980-4017

Ca State Parks, Northcoast Redwood dist Hq

(707) 445-6547x11

Sinkyone Wilderness St. Park

(707) 986-7711

Sinkyone Intertribal Wilderness Council

(707) 463-6745

Mendocino County Sheriff's Dept. (24 hr.)

(707) 463-4086

Ca. DFG - OSPR Dispatch (24 hr.)

(707) 445-0045

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SITE SUMMARY SHEET

SITE: NC-058-B Seal Rocks

OSPR Map #: 025-026

County: Mendocino

Lat/Long: 39 54'/123 55'30"

USGS 7.5' Quad. name: Bear Harbor

Rev: 07/01/96

NOAA Chart: 18620

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Inaccessible from land

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Offshore rocks.

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Pacific Harbor Seal haul-out areas(01-12)

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca DFG, Fort Bragg Office	(707) 964-9078
National Marine Fisheries Service, Joe Cordaro	(562) 980-4017
Ca State Parks, Northcoast Redwood dist Hq	(707) 445-6547x11
Sinkyone Wilderness St. Park	(707) 986-7711
Sinkyone Intertribal Wilderness Council	(707) 463-6745
Mendocino County Sheriff's Dept. (24 hr.)	(707) 463-4086
Ca. DFG - OSPR Dispatch (24 hr.)	(707) 445-0045

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SITE SUMMARY SHEET

SITE: NC-059-A Jackass Creek

OSPR Map #: 025-026

County: Mendocino

Lat/Long: 39 53'/123 55'

USGS 7.5' Quad. name: Bear Harbor

Rev: 07/01/96

NOAA Chart: 18620

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 N. to state route 1 at Legget. Go S. on st route 1 to MP 90.91. Take Usal Rd N (4wd may be required at times) 8 - 10 miles (Name of Usal Rd changes to Timber Ridge Road). Access to Jackass Creek is limited and seasonal through some private lands. Maintenance of roads to Jackass Creek will cease since this will become a 'wilderness' state park. Contact Sinkyone Wilderness St Park listed below.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Tidal inlet. Inlet consists of coarse-grained sand and granules. See RPI Tidal Inlet Study.

Response category 5. Habitat damage could result from intrusive responsive.

Trustees recommend against on-site response.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Leafy Reed Grass (R)(01-12) near creek. Peregrine Falcon (FE,SE)(01-12) found in area. Shorebirds and seabirds abundant in area.

B. Pacific Harbor Seal abundant in area.

Leafy Reed Grass (SR)

ARCHAEOLOGICAL CONCERNS: Yes.

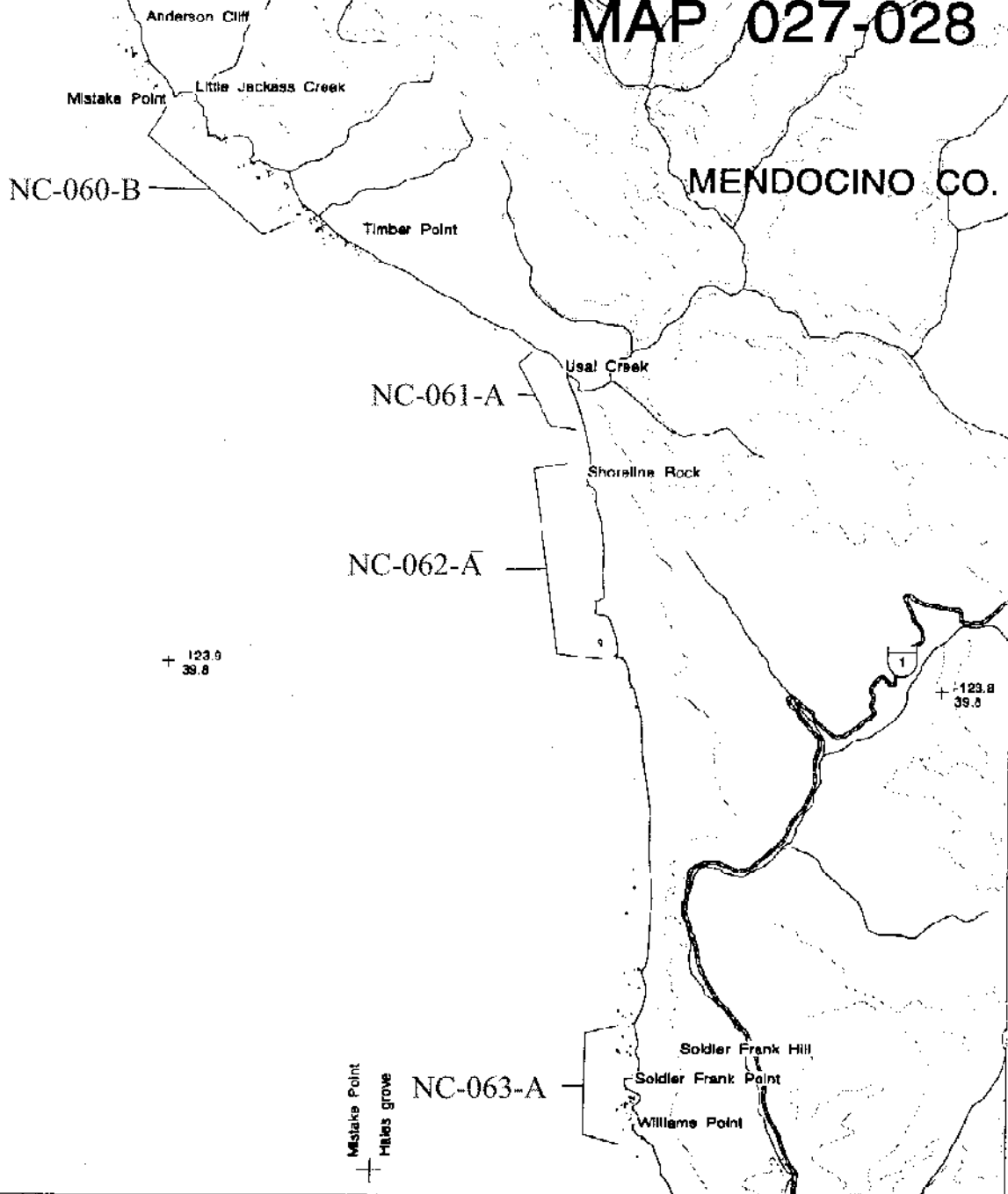
TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Fort Bragg Office,
National Marine Fisheries Service, Joe Cordaro
Ca State Parks, Northcoast Redwood dist Hq
x11
Sinkyone Wilderness St. Park
Sinkyone Intertribal Wilderness Council
Mendocino County Sheriff Dept. (24 hr.)
Ca. DFG - OSPR Dispatch (24 hr.)

(707) 964-9078
(310) 980-4017
(707) 445-6547x11

(707) 986-7711
(707) 463-6745
(707) 463-4086
(916) 445-0045

MAP 027-028



ENVIRONMENTAL SENSITIVITY RANKING



- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993



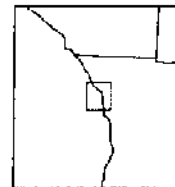
SEASONALITY

SCALE = 1:54467

0 1 2 3 MILES

ALBERS PROJECTION - NORTH AMERICAN DATUM OF 1927

INDEX MAP



This map includes USGS quad sheets of Mistake Point & Hales Grove

The comparable NOAA nautical chart is Point Arena to Trinidad Head

SITE SUMMARY SHEET

SITE: NC-060-B Little Jackass Creek

OSPR Map #: 027-028

County: Mendocino

Lat/Long: 39 51'N 123 54'

USGS 7.5' Quad. name: Mistake Pt.

Rev: 07/01/96

NOAA Chart: 18620

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Accessible only from Jackass Creek (NC-059-A) VIA difficult 3.5 mile foot trail through steep terrain. Site lies within Sinkyone Wilderness State Park.

Take U.S. Hwy 101 N. to state route 1 at Legget. Go S. on st route 1 to MP 90.91. Take Usal rd N (4wd may be required at times) 8 - 10 miles (Name of Usal Rd changes to Timber Ridge Road). Access to Jackass Creek is limited and seasonal through some private lands. Maintenance of roads to Jackass Creek will cease since this will become a 'wilderness' state park. Contact Sinkyone Wilderness St Park listed below.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Small tidal inlet. Beach sediments range from coarse-grained sand to gravel.

Response category 5. Habitat damage could result from intrusive response. Trustees recommend against on-site response.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. California sea Lion haulout (largest mainland haulout in California)(5 - 8). Pacific Harbor Seal haulout 900+ animals observed.

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Mendocino County Sheriff's Dept. (24 hr.)
Ca. DFG - OSPR Dispatch (24 hr.)
Ca DFG, Fort Bragg Office,
National Marine Fisheries Service, Joe Cordaro
Ca State Parks, Northcoast Redwood dist Hq
Sinkyone Wilderness St. Park
Sinkyone Intertribal Wilderness Council

(707) 463-4086
(916) 445-0045
(707) 964-9078
(310) 980-4017
(707) 445-6547x11
(707) 986-7711
(707) 463-6745

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SITE SUMMARY SHEET

SITE: NC-061-A Usal Creek

OSPR Map #: 027-028

County: Mendocino

USGS 7.5' Quad. name: Hales Grove

NOAA Chart: 18620

Lat/Long: 39 49'30"/123 51'

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 N. to state route 1 at Leggett. Go S. on st route 1 to MP 90.91. Take Usal rd N (narrow, winding, and unpaved - 4wd may be required at times) 8 - 10 miles. Contact Sinkyone Wilderness St Park listed below. Site lies within Sinkyone Wilderness State Park.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

See RPI Tidal Inlet Study. Tidal inlet and estuary. Beach consists of coarse sediments (coarse grained sand, granules, and pebbles).

Response category 4. Difficult access. Distance (20+ miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Oiling of estuary is the primary concern. A concern throughout the year.

B. Tidewater Goby (FE)(01-12). Seabirds, shorebirds, and raptors are commonly in the area. Pacific Harbor Seals are commonly in the area.

C. Night smelt and Surf smelt spawn on the beach near the entrance to Usal Creek and south to Shoreline Rock from (04-08).Surfperch spawn in area.

ARCHAEOLOGICAL CONCERNS: Yes.

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca DFG, Fort Bragg Office
National Marine Fisheries Service, Joe Cordaro
Ca State Parks, Northcoast Redwood dist Hq
Sinkyone Wilderness St. Park
Sinkyone Intertribal Wilderness Council
Mendocino County Sheriff's Dept. (24 hr.)
Ca. DFG - OSPR Dispatch (24 hr.)

(707) 964-9078
(310) 980-4017
(707) 445-6547x11
(707) 986-7711
(707) 463-6745
(707) 463-4086
(916) 445-0045

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SITE SUMMARY SHEET

SITE: NC-062-A Shoreline Rock

OSPR Map #: 027-028

County: Mendocino

Lat/Long: 39 49' 123 51'

USGS 7.5' Quad. name: Hales Grove

Rev: 07/01/96

NOAA Chart: 18620

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 N. to state route 1 at Leggett. Go S. on st route 1 to MP 90.91. Take Usal rd N (narrow, winding, and unpaved - 4wd may be required at times) 8 - 10 miles. Shoreline Rock is offshore about .25 miles S. of the mouth of Usal Creek. Contact Sinkyone Wilderness St Park listed below. Site lies within Sinkyone Wilderness State Park.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Nearshore rock. Closest beaches are of coarse sediments.

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird rookeries(05-09): Pelagic Cormorant, Pigeon Guillemot, Western Gull

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca DFG, Fort Bragg Office

(707) 964-9078

Ca State Parks, Northcoast Redwood dist Hq

(707) 445-6547x11

Sinkyone Wilderness St. Park

(707) 986-7711

Sinkyone Intertribal Wilderness Council

(707) 463-6745

Wilderness Institute (lease property from

Stoper-Wheeler, Inc. for private hunt club)

(800) 415-hunt

Mendocino County Sheriff's Dept. (24 hr.)

(707) 463-4086

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SITE SUMMARY SHEET

SITE: NC-063-A Soldier Frank Point

OSPR Map #: 027-028

County: Mendocino

Lat/Long: 39 45'30"/123 50'

USGS 7.5' Quad. name: Hales Grove

Rev: 07/01/96

NOAA Chart: 18620

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Inaccessible rocky headland lying about 2 mi. N. of Cape Vizcaino. Nearest road is Usal Road. Take U.S. Hwy 1 N. to State Hwy 1 at Eggett. Go S. on State Hwy 1 to MP 83.54. Go N. on dirt road (4WD required at times).

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Exposed rock cliffs; exposed vertical sea walls.

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird rookeries(03-09): Pelagic Cormorant, Pigeon Guillemot

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca Dept. of Fish and Game, Fort Bragg Office

(707) 964-9078

Ca. DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

Mendocino County Sheriff's Dept. (24 hr.)

(707) 463-4086

MAP 029

MENDOCINO CO.

NC-064-A

Gape Vizcalno

Conanava Creek

NC-065-A

Hardy

Hardy Creek

Juan Creek

Little Juan Creek

123.5

39.7

Union Landing

NC-066-A

Little Howard Creek

Howard Creek

Gordon Hill

Abalone Point

DeHaven Creek

Weges Creek

Westport

NC-067-A

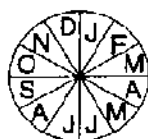
Bolt Point



ENVIRONMENTAL SENSITIVITY RANKING

- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993



SEASONALITY

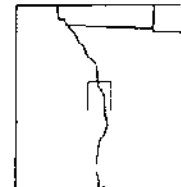
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ALBERS PROJECTION - NORTH AMERICAN DATUM OF 1927



INDEX MAP



This map includes USGS quad sheets of Westport

The comparable NOAA nautical chart - Is Point Arena to Trinidad Head

SITE SUMMARY SHEET

SITE: NC-064-A Rockport Bay and Cottaneva Creek

OSPR Map #: 029

County: Mendocino

Lat/Long: 39 50'123 49'30"

USGS 7.5' Quad. name: Westport

Rev: 07/01/96

NOAA Chart: 18620

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 to State route 1 South at Leggett. Go south on State route 1. Exit at Louisiana Pacific Private Road in Rockport MP 87.82. Site is through a locked gate and appx. 0.6 miles down 1 lane dirt road. Follow road to left to grassy field (100 yds. by 150 yds.). This area is accessible to large equipment.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Mixed sand and gravel beach. Minor wetland.

Response category 4. Difficult access. Distance (20+ miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. California Brown Pelicans (FE,SE)(04-11) Seabirds Shorebirds waterfowl minor freshwater marsh.

B. Surf smelt and Night smelt spawning area(04-08).

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Lousiana Pacific Corporation

(707) 962-2800

Ca. Dept. Fish and Game, Fort Bragg office

(707) 978-5603

Mendocino County Sheriff's Dept. (24 hr.)

(707) 463-4086

Ca DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

INLET SKETCH MAP

COTTANEVA CREEK
Inlet Name INLET, CA.

Recorder(s) MOH/THE

Date/Time 12 NOV. 1982, 1045

Tide Stage HIGH @ 1116 (+6.9) RIVER

Inlet Classification D

CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

LEGEND

XXXXXXX →

Recommended
Oil-Culmination Area

✓ ✓

Salt-Water Marsh

⇌

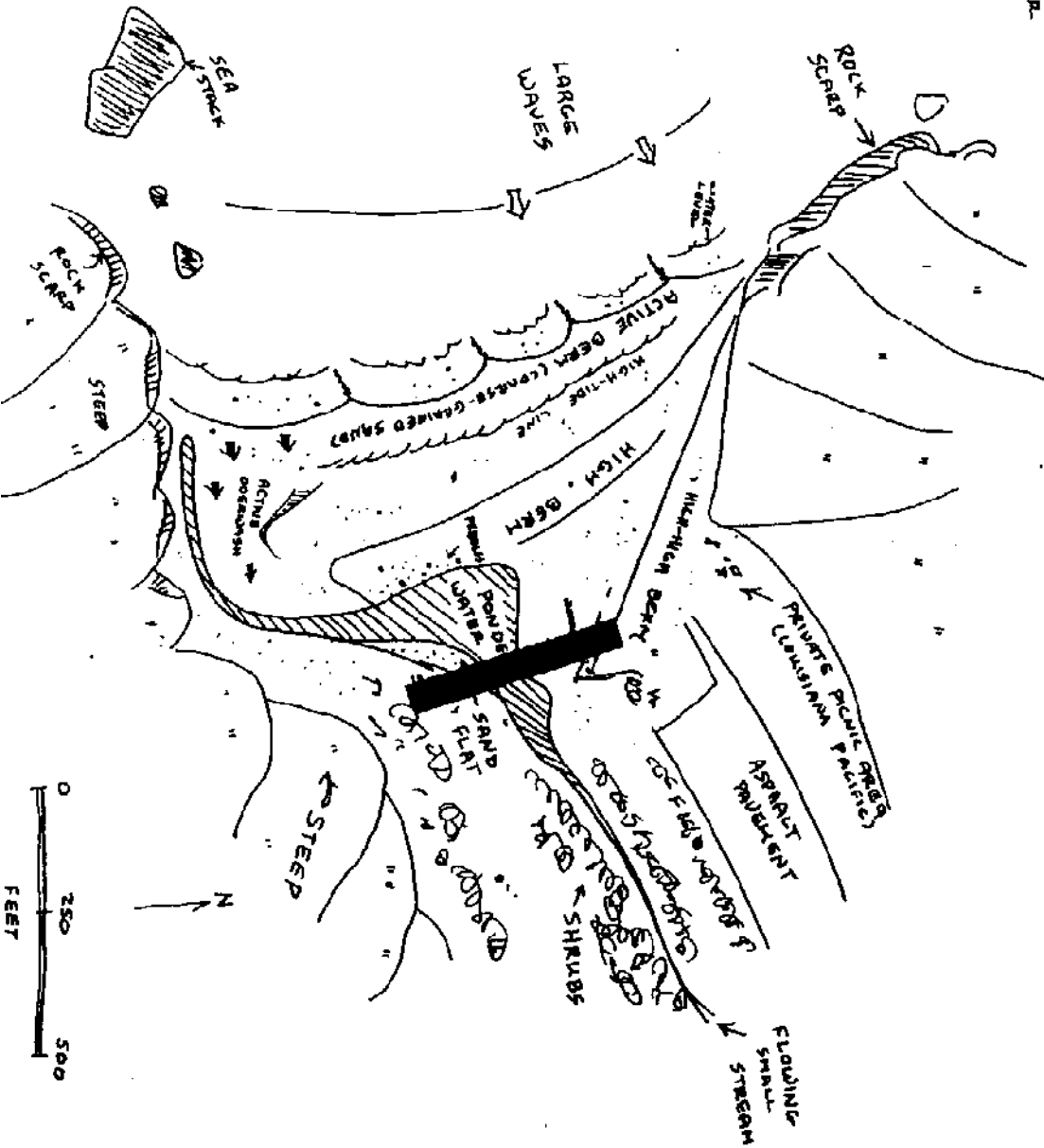
Fresh-Water Marsh

→ →

High-Tide
Overwash Zone

~~~~~

Last High-Tide  
Swash Line



## SITE SUMMARY SHEET

**SITE:** NC-065-A Hardy Creek

**OSPR Map #:** 029

**County:** Mendocino

**USGS 7.5' Quad. name:** Mendocino

**NOAA Chart:** 18620

**Lat:** 39 42'30" N

**Long:** 123 48'30" W

**Rev:** 07/01/96

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 N. to State route 1 South at Leggett. Follow state route 1 S. to Private Road at MP 83.78. Follow this access road until it terminates at the head of the marsh/wetland. Road ends here, it does not access the beach. Proceed by foot. Beach access also possible by steep foot path from State Hwy 1 MP 83.53.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Small stream incises a sand and gravel beach and abuts a bedrock bluff on the northside of valley. The narrow beach has a well developed storm berm. During severe storm conditions, the entire beach is apparently overwashed, as evidenced by the presence of large logs up in the marsh on the south side of valley. This inlet can be closed by a sediment dike.

Response category 4. Difficult access. Distance (20+ miles) from pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Shorebirds and waterfowl visiting ponded water and marsh behind the beach. Marsh system behind the beach.

**ARCHAEOLOGICAL CONCERNS:**

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Ca Dept of Fish and Game, Fort Bragg

Yountville

Mendocino County Sheriff's Dept. (24 hr.)

Ca DFG - OSPR Dispatch (24 hr.)

(707) 944-5500

(707) 964-9078

(707) 463-4086

(916) 445-0045

# INLET SKETCH MAP

HARDY CREEK

Inlet Name INLET, CA.

Recorder(s) MDH/TMM

Date/Time 12 NOV 1992; 0950

Tide Stage High @ 1116 (+6.4) <sup>NOV 10</sup> <sub>ALBERTA</sub>

Inlet Classification D

## CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

## LEGEND

----- xxxxxxxx -----

Recommended  
Oil-Catchment Area

⌞ ⌞

Salt-Water Marsh

⌞

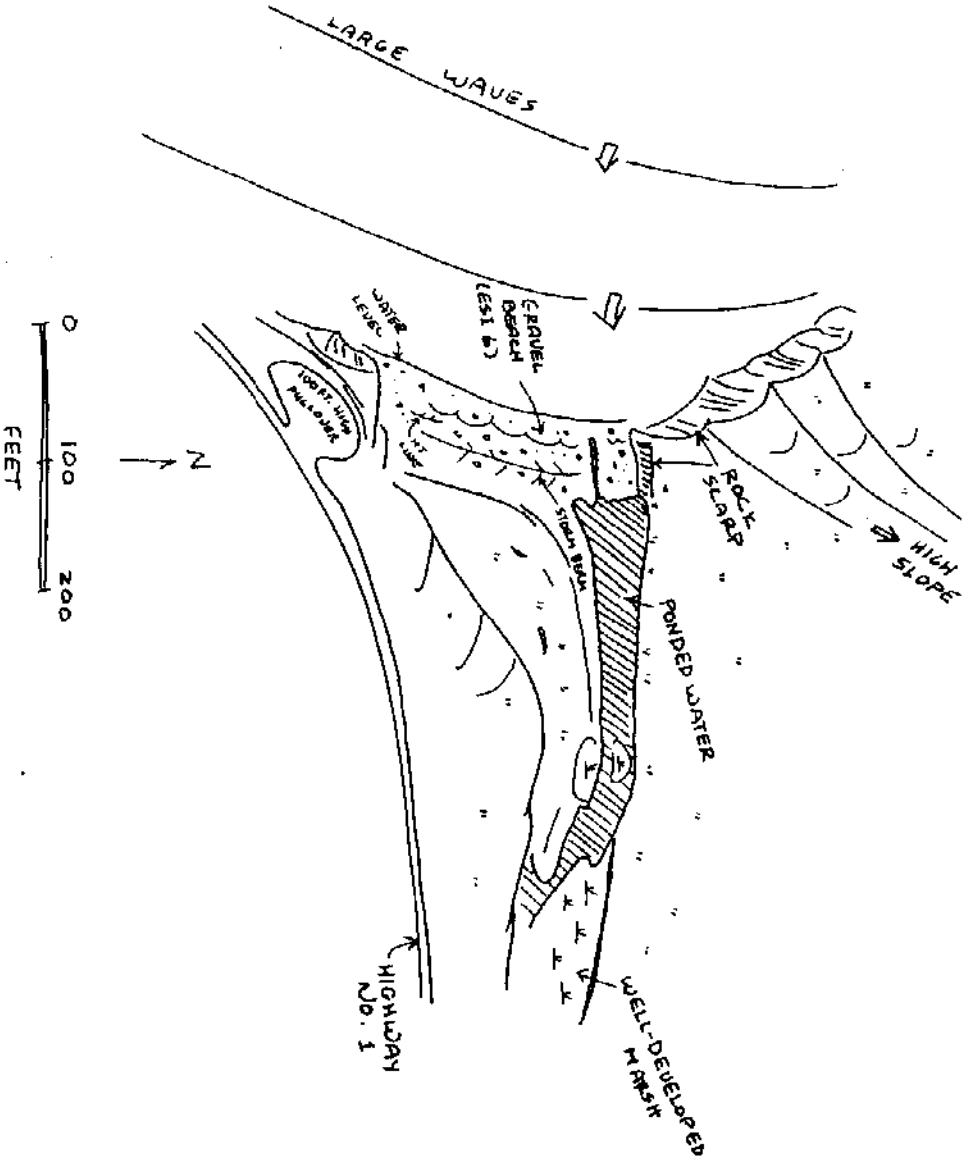
Fresh-Water Marsh

→ →

High-Tide  
Overwash Zone

~~~~~

Last High-Tide
Swash Line



SITE SUMMARY SHEET

SITE: NC-066-A Union Landing

OSPR Map #: 029

County: Mendocino

Lat/Long: 39 41'30"/123 48'

USGS 7.5' Quad. name: Westport

Rev: 07/01/96

NOAA Chart: 18620

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 to Leggett. Turn S. on state Hwy 1 and continue to about MP 80. Four small coastal streams excise steep coastal bluffs and beaches in this area. Juan Creek - private road 0.1 miles N. of Juan Creek bridge at MP 82.91. Howard Creek - go west at MP 80.81 to State Park parking lot. Paved Rd. is adjacent to creek. Dehaven Creek - go west at MP 79.30 on paved road. Use dirt road at end of Dehaven creek bridge for large machinery. Wages Creek - enter Wages Creek private campground. Access to beach is 0.4 miles beyond campground managers home. Get permission.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Offshore rocks, steep coastal bluffs, and small coastal stream inlets. The tidal inlets generally do not have ponded water behind them and do not have near shore wetlands associated with them. The tidal inlets include Juan Creek, Howard Creek, Dehaven Creek and Wages Creek.

Response category 2. Easily accessed site. Distance (20+ miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird rookeries(03-09): primarily Pelagic Cormorants roosts(01-12). The tidal inlets are visited by migrating shorebirds and waterfowl. Tidewater Goby(FE)(01-12) may be found in coastal streams.

B. Surf smelt and Night smelt spawn near the mouths of the four creeks from(05-08).

ARCHAEOLOGICAL CONCERNS: _____

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca Dept of Fish and Game, Fort Bragg
Yountville

(707) 964-9078

(707) 944-5500

Ca St. Pks, Russian Gulch/Mendocino HQ

(707) 961-1001

Mendocino County Sheriff's Dept. (24 hr.)

(707) 463-4086

Ca DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

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SITE SUMMARY SHEET

SITE: NC-067-A Westport

OSPR Map #: 029

County: Mendocino

Lat/Long: 39 38'/123 47'

USGS 7.5' Quad. name: Mendocino

Rev: 07/01/96

NOAA Chart: 18620

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 to Willits. Turn W. on State Hwy 20 and continue to State Hwy 1 at Fort Bragg. Turn N. on state Hwy 1 and continue to Westport.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Offshore rocks and steep coastal bluffs.

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird rookeries(03-09): principally Pelagic Cormorants, roosts(01-12).

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca Dept of Fish and Game, Fort Bragg
Mendocino County Sheriff's Dept. (24 hr.)
Ca DFG - OSPR Dispatch (24 hr.)

(707) 964-9078
(707) 463-4086
(916) 445-0045

INLET SKETCH MAP

WAGES CREEK

Inlet Name INLET, CA.

Recorder(s) MOH/TMY

Date/Time 12 NOV 1972, 0930

Tide Stage High @ 1116 (+6.4) MSL

Inlet Classification D

CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

LEGEND

-----xxxxxxx-----

Recommended
Oil-Catchment Area

✓
✓

Salt-Water Marsh

⊞

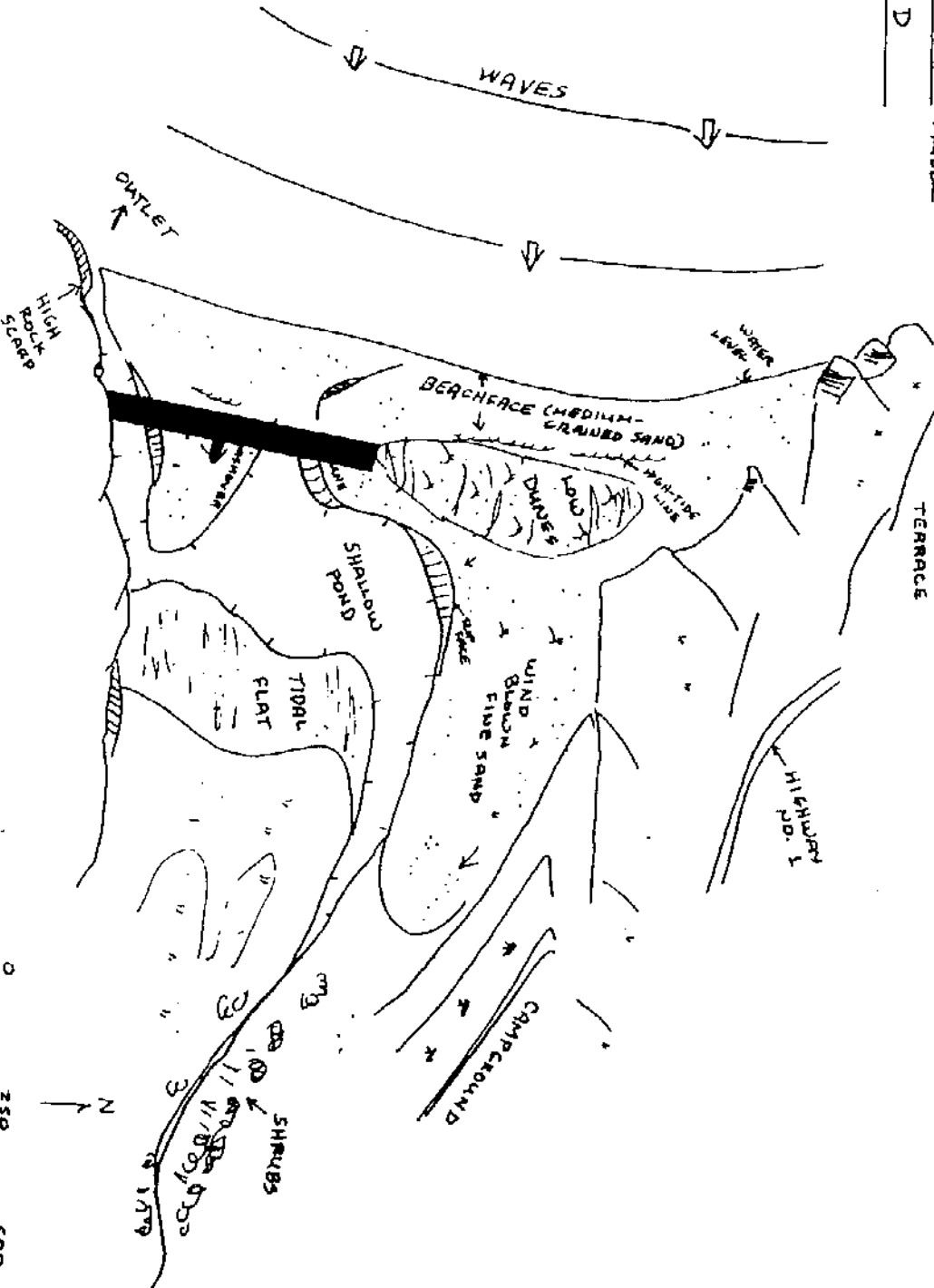
Fresh-Water Marsh

→ →

High-Tide
Overwash Zone

~~~~~

Last High-Tide  
Swash Line



POTENTIAL PROTECTION  
STRATEGY (FLOOD TIDE)

■ Sediment DiKE

# MAP 030

NC-068-A

-123.8  
39.2

Bruhal Point

Kibesillah Creek  
Kibesillah

Kibesillah  
Rock

Abalobadiah Creek

Ten Mile River Bluff

Seaside Creek

Frazer Creek

NC-069-A

NC-070-A

Inglennook Creek

Inglennook

MENDOCINO CO.

NC-071-B

-123.8  
38.5



## ENVIRONMENTAL SENSITIVITY RANKING

- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993



SEASONALITY

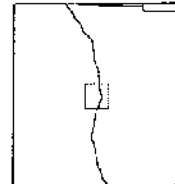
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0 1 2 3 MILES

ALBERS PROJECTION, NORTH AMERICAN DATUM OF 1987

E-V-141 Change #1

## INDEX MAP



This map includes USGS quad sheets of Inglennook

The comparable NOAA nautical chart is Point Arena to Trinidad Head

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## SITE SUMMARY SHEET

**SITE:** NC-068-A Kibesillah Hill

**OSPR Map #:** 030

**County:** Mendocino

**Lat/Long:** 39 35'30"/123 47'

**USGS 7.5' Quad. name:** Inglenook

**Rev:** 07/01/96

**NOAA Chart:** 18620

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 to Willits. Turn W. on State Hwy 20 and continue to State Hwy 1 at Fort Bragg.

Turn N. on State Hwy 1 and go N. to MP 75.43. Three small creeks are found within this site.

Chadbourne Gulch Creek - (public) take dirt road at MP 75.43. Follow 0.1 miles to dirt lot. Lot accesses beach. Abalobidiah Creek - take private road at MP 71.50 to beach. Seaside Creek - (private) access directly from turnout at MP 70.65.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Rocky bluffs excised by four small tidal inlets at Seaside Creek, Abalobadiah Creek, Kibesillah Creek, and Chadbourne Gulch. Tidal inlets are fine to medium grained sand. The remainder of the shoreline exposed rock cliffs, vertical seawalls, and wave-cut platforms. A small marsh exists within Abalobidiah Creek and is regularly flooded by the tide.

Response category 2. Easily accessed site. (20+ miles) from pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Seabird rookeries on Kibesillah Rock and Newport Rocks (03-09): Brandts Cormorant, Pelagic Cormorant, Western Gull, Black Oystercatcher, Pigeon Guillemot Shorebirds present. California Brown Pelican (FE,SE)(04-11).

B. Fish: Tidewater Goby(FE)(01-12) may be present in creeks. Redtail Surfperch, Surf and Night smelts spawn(04-08).

**ARCHAEOLOGICAL CONCERNS:**

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Ca Dept. of Fish and Game, Fort Bragg

(707) 964-9078

Yountville

(707) 944-5500

Mendocino County Sheriff's Dept. (24 hr.)

(707) 463-4086

Ca DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

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## SITE SUMMARY SHEET

**SITE:** NC-069-A Ten Mile River

**OSPR Map #: 030**

**County:** Mendocino

**USGS 7.5' Quad. name:** Inglenook

**NOAA Chart:** 18626

**Lat:** 39 33'20" N

**Long:** 123 46'00" W

**Rev:** 07/01/96

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 to Willits. Turn W. on State Hwy 20 and continue to State Hwy 1 at Fort Bragg. Turn N. on State Hwy 1 and go N. about 10 miles to Ten Mile River. Exit right onto dirt road at MP 69.22. Keep to right and follow for 0.4 miles to base of hill. Turn west (left) on small road (locked gate - get access form CSP) and follow for 1.8 miles. When road branches, go right, under Hwy 1 Ten mile River bridge. Continue about 0.5 miles to mouth of river.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Tidal river crossing a wide sandy beach. Channel fixed alongside bedrock scarp on the N. side of valley. A very well developed marsh system exists landward of state Hwy 1 bridge (about .33 mile upriver from mouth).

Response category 2. Easily accessed site. (20+ miles) from pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Rare, threatened, or endangered plants and animals. Menzies Wallflower(SE,FE), Leafy Reed Grass(SR), Mendocino Coast Paintbrush(FSC), Globose Dune Beetle(SR), Tidewater Goby(FE) all(01-12). Snowy Plover(FT)(01-12) - critical nesting period(04-08). Nests directly on sand within dunes. Raptors incl. Osprey(CSC)(01-12).

B. Eelgrass and associated communities in estuary. Fish: Anadromous salmonids: Coho salmon(FT) and Steelhead trout(FSS):

- spawning runs(09-06)

- smolts/juveniles(02-08)

Chinook hatchery. Inverts: Juvenile Dungeness Crab nursery area(07-10).

C. Surf smelt, Night smelt, surfperch (04 - 08).

**ARCHAEOLOGICAL CONCERNS:** Archaeological sites exist in dunes to south of Ten Mile River.

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Bill Berry, Ca St Parks, Mendocino Dist HQ.

(707) 973-5804

Ca Dept of Fish and Game, Fort Bragg

(707) 964-9078

Yountville

(707) 944-5500

Mendocino County Sheriff's Dept. (24 hr.)

(707) 463-4086

Ca DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

# INLET SKETCH MAP

TEN MILE RIVER

Inlet Name: INLET, CA

Record(s): NOHTM44

Date/Time: 12 APR 1973, 0800

Tide Stage: LOW (0.521 (+3.3)); NOV

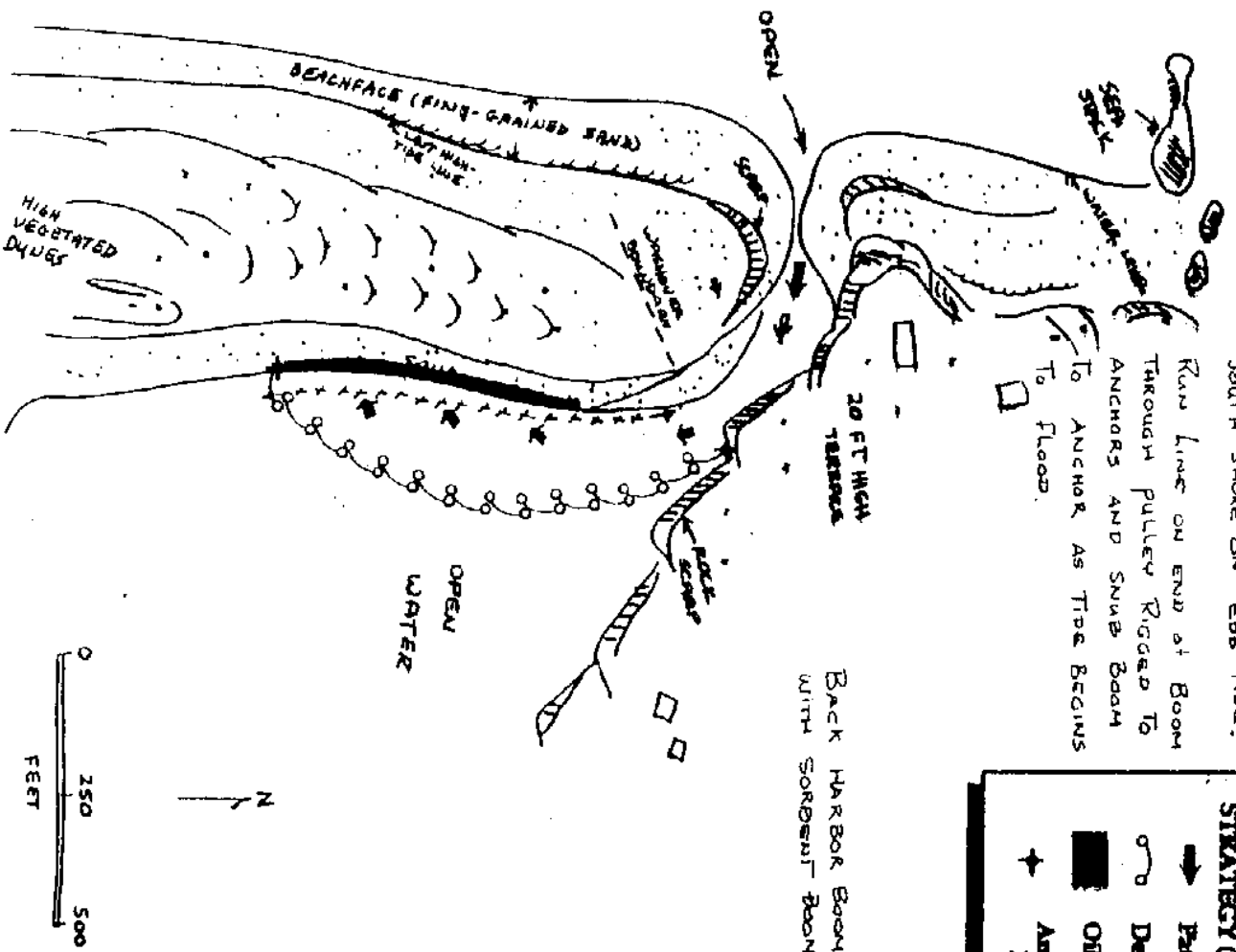
Inlet Classification: B

## CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

## LEGEND

- XXXXXX-----> Recommended Oil-Carcement Area
- ∠ ∠ Salt-Water Marsh
- ∩ Fresh-Water Marsh
- → High-Tide Overwash Zone
- ~~~~~ Last High-Tide Swash Line



**POTENTIAL PROTECTION STRATEGY FLOOD TIDE**

- Path Of Oil
- Deflection Booms
- Oil On Shoreline
- + Anchor Point/ Hinge Line

**SITE: NC-070-B Inglenook Creek and  
Sandhill Lake Creek**

**County:** Mendocino

**USGS 7.5' Quad. name:** Inglenook

**NOAA Chart:** 18626

**OSPR Map #: 030**

**Lat/Long:** 39 32'/123 46'30"

**Rev:** 07/01/96

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 to Willits. Turn W. on State Hwy 20 and continue to State Hwy 1 at Fort Bragg. Turn N. on State Hwy 1 and go N. about 10 miles to Ten Mile River. Same access as for Ten Mile River (NC-069-A) into the general area of the two creeks. Inglenook Creek is about 2 miles S. of the mouth of Ten Mile River and is accessible from the abandoned Georgia Pacific haul road. Sandhill Lake Creek is S. of Inglenook Creek by about 0.4 miles.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Wide sandy beach backed by vegetated dunes. Inglenook Creek and Seaside Creek are seasonal creeks that flow across the beach. The presence of woody debris well back into the streams where they cross the dunes indicates considerable tidal and winter storm influence.

Response category 4. Difficult access. Distance (20+ miles) from pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - e.g. breeding, nesting, haulout, etc.)

A. Small amount of marsh habitat within stream mouths. Dune vegetation during response. Menzies' Wallflower(SE,FE)(01-12), and Leafy Reed Grass(SR)(01-12) are found within the area surrounding the two creeks. The Globose Dune Beetle (SR)(01-12) is found within the area. Snowy Plover(FT)(01-12) - critical nesting period(04-08). Nests directly on sand within dunes.

**ARCHAEOLOGICAL CONCERNS:**

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Bill Berry, Ca St Parks, Mendocino Dist HQ  
Ca Dept. of Fish and Game, Fort Bragg  
Mendocino County Sheriff's Dept. (24 hr.)  
Ca DFG - OSPR Dispatch (24 hr.)

(707) 973-5804  
(707) 964-9078  
(707) 463-4086  
(707) 445-0045

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## SITE SUMMARY SHEET

**SITE:** NC-071-B McKerricher St Pk-Mill Crk

**OSPR Map #:** 030

**County:** Mendocino

**Lat/Long:** 39 29'/123 48'

**USGS 7.5' Quad. name:** Fort Bragg

**Rev:** 07/01/96

**NOAA Chart:** 18620, 18626

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 to Willits. Turn W. on State Hwy 20 and continue to State Hwy 1 at Fort Bragg. Turn N. on State Hwy 1 and go N. about 4 miles to Mill Creek Drive. Turn west into McKerricher State Park. Go to end of road, passing under log haul road trestle to parking lot at mouth of Mill Creek.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Seasonal tidal inlet at Mill Creek. Creek is flanked on the N. by a medium to coarse grained sandy beach. On the south by a rocky scarp.

Response category 1. Easily accessed site. Close to pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Mendocino Paintbrush(FSC)(1-12) is found in the dunes to the north of the creek and could be impacted by response activities. Shorebirds are found in the area(1-12).

B. Surf smelt(04-08). Surf perch(04-07).

**ARCHAEOLOGICAL CONCERNS:** Archaeological sites are found in the dunes to the north of this site.

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Bill Berry, Ca St Pk, Mendocino Dist HQ,  
Ca Dept. of Fish and Game, Fort Bragg  
Mendocino County Sheriff's Dept. (24 hr.)  
Ca DFG - OSPR Dispatch (24 hr.)

(707) 961-1001  
(707) 964-9078  
(707) 463-4086  
(916) 445-0045

# INLET SKETCH MAP

MILL CREEK

Inlet Name INLET, CA.

Recorder(s) MOH/TMH

Date/Time 12.20.00.1992, 0710

Tide Stage LOW 0521 (+3.3) Noyo  
AVERT

Inlet Classification D

## CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

## LEGEND

-----XXXXXX-----

Recommended  
Oil-Catchment Area



ROCKS



Salt-Water Marsh



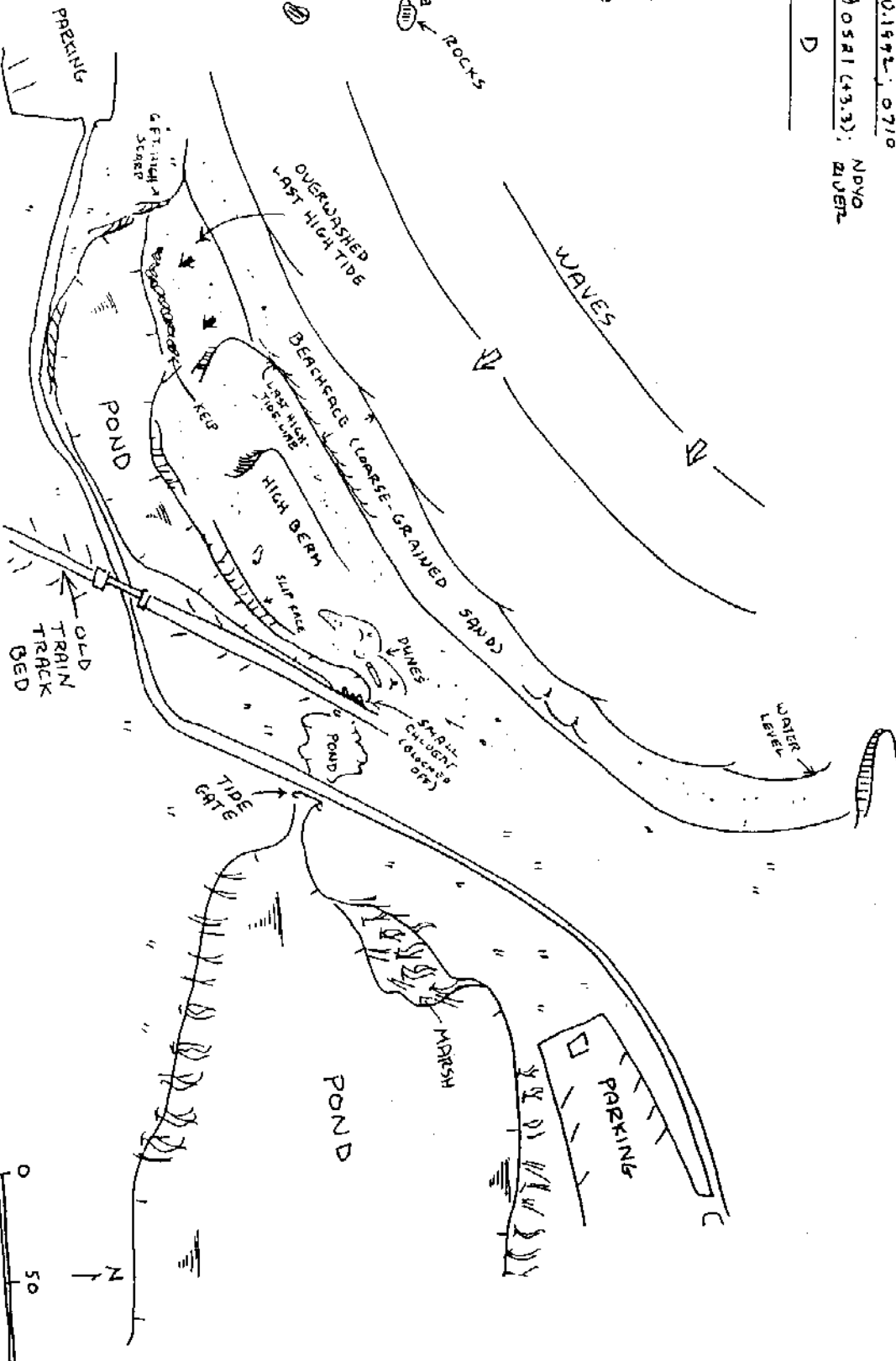
Fresh Water Marsh



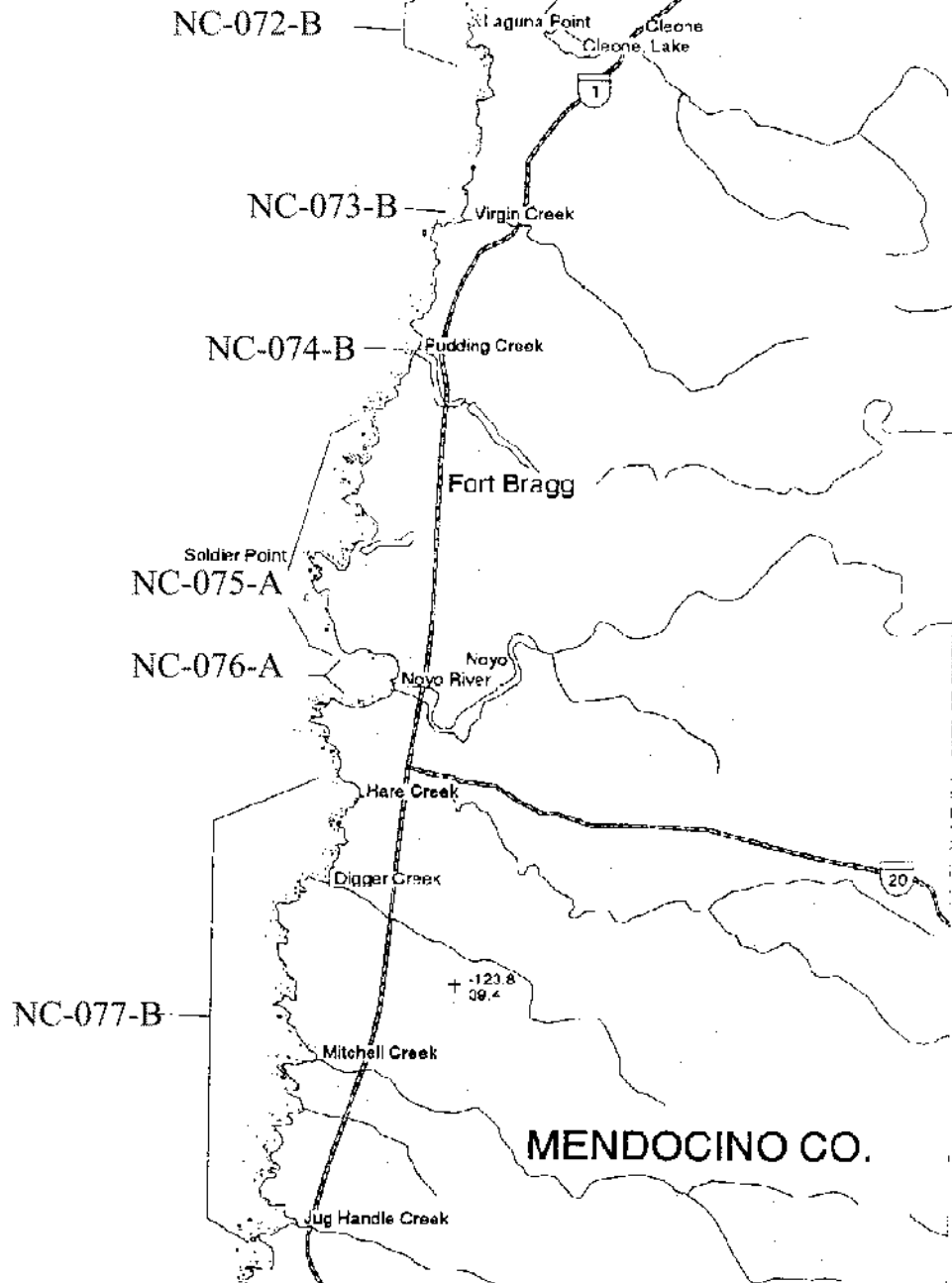
High-Tide  
Overwash Zone



Last High-Tide  
Swash Line



# MAP 031



## ENVIRONMENTAL SENSITIVITY RANKING



- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993

SCALE = 1:53028

0 1 2 MILES  
ALBERS PROJECTION - NORTH AMERICAN DATUM OF 1927

E-V-154 Change #1



SEASONALITY

## INDEX MAP



This map includes USGS quad sheets of Fort Bragg

The comparable NOAA nautical chart is Elk to Fort Bragg

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## SITE SUMMARY SHEET

**SITE:** NC-072-B McKerricher St Pk-Laguna Pt.

**OSPR Map #:** 031

**County:** Mendocino

**USGS 7.5' Quad. name:** Fort Bragg

**NOAA Chart:** 18626

**Lat/Long:** 39 29'30"/123 48'

**Rev:** 07/01/96

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 to Willits. Turn W. on State Hwy 20 and continue to State Hwy 1 at Fort Bragg. Turn N. on State Hwy 1 and go N. about 4 miles to Mill Creek Drive. Turn west into McKerricher State Park. Go to end of road, passing under log haul road trestle to parking lot at mouth of Mill Creek and trails to Laguna Pt.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Rocky headland, wave-cut platforms, intertidal and offshore seastacks.

Response category 7. Conventional response is not realistic based upon current technology. \*Extreme current \*High energy shoreline \*Offshore rocks

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabirds and Shorebirds are found throughout the area (1-12). Harbor Seals - haul outs, pupping, and nursery area(01-12).

**ARCHAEOLOGICAL CONCERNS:** \_\_\_\_\_  
\_\_\_\_\_

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Bill Berry, CA St. Pks, Mendocino District HQ  
Ca Dept. of Fish and Game, Fort Bragg Office  
Mendocino County Sheriff's Dept. (24 hr.)  
Ca DFG - OSPR Dispatch (24 hr.)

(707) 961-1001  
(707) 964-9078  
(707) 463-4086  
(916) 445-0045

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## SITE SUMMARY SHEET

**SITE:** NC-073-B Virgin Creek

**OSPR Map #:** 031

**County:** Mendocino

**USGS 7.5' Quad. name:** Inglenook

**NOAA Chart:** 18626

**Lat/Long:** 39 28'/123 47'30"

**Rev:** 07/01/96

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. hwy 101 to State route 20 West at Willits. Follow State route 20 West to State route 1. Turn into public parking lot just past Beachcomber Motel. Proceed to locked gate on Haul Road at rear of parking lot (see \*). Accessibility limited to width between railroad bridge stanchions (14').

Alternate Route: State route 1 north from Fort Bragg, turn left onto Mill Creek Drive MP 65.03 to another locked gate on Haul Road. Proceed left onto Haul Road to inlet(1.2 miles).

\* Land purchased by CSP. They have keys to all logging road gates. Call 707-964-5651 for keys. Gate at parking lot is called Main gate.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Seasonal tidal inlet. Creek flows along bedrock outcropping on it's S. side and then across a broad medium grained sand beach.

Response category 1. Easily accessed site. Close to pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: area is visited by shorebirds and seabirds. Snowy Plover(FT)(01-12) - critical nesting period(04-08). Nests directly on sand within dunes.

**ARCHAEOLOGICAL CONCERNS:** yes

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Ca Dept. of Fish and Game, Fort Bragg

(707) 964-9078

Ca St. Pk., Mendocino Dist HQ,

(707) 961-1001

Mendocino County Sheriff's Dept. (24 hr.)

(707) 463-4086

Ca DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

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## SITE SUMMARY SHEET

**SITE:** NC-074-B Pudding Creek

**OSPR Map #: 031**

**County:** Mendocino

**Lat:** 39 27'30" N

**USGS 7.5' Quad. name:** Fort Bragg

**Long:** 123 48'30"

**NOAA Chart:** 18620

**Rev:** 07/01/96

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 to Willits. Go west on State Hwy 20 to State Hwy 1 at Fort Bragg. Go north on State Hwy 1 about 3 miles to Pudding Creek bridge (North end of Fort Bragg). Take Pudding Creek Beach road to parking lot on the west side of state Hwy 1 near the mouth of Pudding Creek. Heavy equipment access to the beach is possible at this point.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Seasonal tidal inlet across wide sandy beach. Intertidal and nearshore sea-stacks south of the creek entrance and, wave-cut platforms to the north. Some fringing marsh exits about .3 miles up-stream. A wooden trestle bridge crosses the creek about 100 yards up-river of it's mouth.

Response category 1. Easily accessed site. Close to pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Tidewater Goby(FE)(01-12), Osprey(CSC)(01-12).

B. Fringing marsh. Visiting seabirds and shorebirds Barnacles, mussels, associated inverts. in intertidal zone.

**ARCHAEOLOGICAL CONCERNS:** Yes. \_\_\_\_\_

### **TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Bill Berry, CA St. Prks., Mendocino Dist HQ.  
Ca Dept. of Fish and Game, Fort Bragg  
Mendocino County Sheriff's Dept. (24 hr.)  
Ca DFG - OSPR Dispatch (24 hr.)

(707) 961-1001  
(707) 964-9078  
(707) 463-4086  
(916) 445-0045

# INLET SKETCH MAP

PUDONG CREEK

Inlet Name INLET, CA.

Recorder(s) MDH/TMM

Date/Time 11/20/1992, 1615

Tide Stage Low 0.1741 (-0.7); NOVO

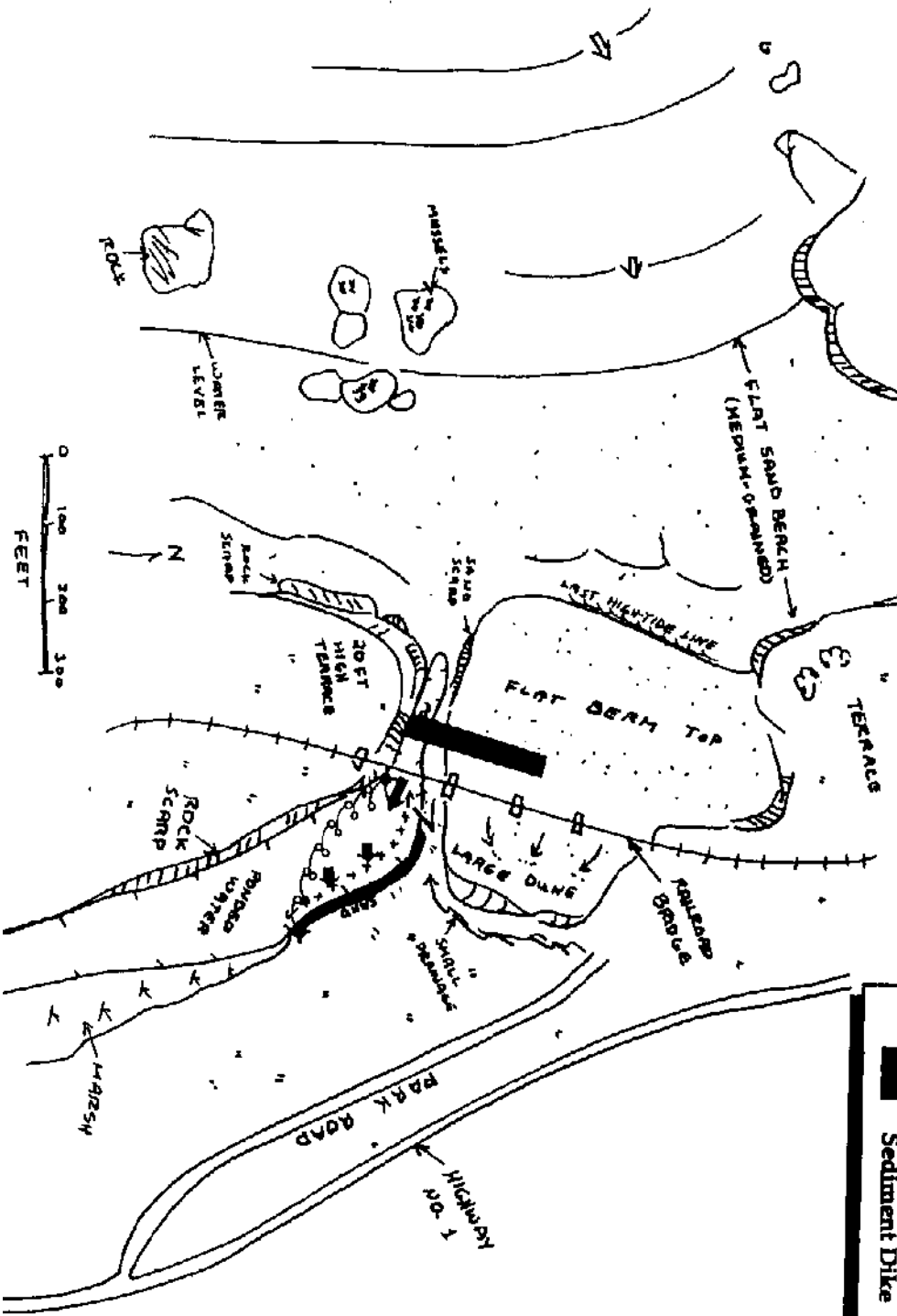
Inlet Classification C

## CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

## LEGEND

- XXXXXXX Recommended Oil-Catchment Area
- W Salt-Water Marsh
- W Fresh-Water Marsh
- → High-Tide Overwash Zone
- ~~~~~ Last High-Tide Swash Line



**POTENTIAL PROTECTION STRATEGY (FLOOD TIDE)**

- Path Of Oil
- ~ Deflection Boom
- Oil On Shoreline
- ✦ Anchor Point / Hinge Line
- Sediment Dike

## SITE SUMMARY SHEET

**SITE:** NC-075-A Soldier Point

**OSPR Map #: 031**

**County:** Mendocino

**Lat/Long:** 39 26'30"/123 49'

**USGS 7.5' Quad. name:** Fort Bragg

**Rev:** 07/01/96

**NOAA Chart:** 18620

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 to Willits. Go west on State Hwy 20 to State Hwy 1 at Fort Bragg. Go north on State Hwy 1 to Oak Street in the town of Fort Bragg. Turn west into the Georgia Pacific Corporation Mill. This site lies entirely within Corporation boundaries.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Rocky coastal headland consisting of wave-cut platforms, bedrock outcroppings, and sea stacks (85 %). About 15 % of shoreline lies within pocket coves consisting of coarse grained sand and pebbles. Short section (200 feet) riprap near mill outfall. Moderate debris consisting primarily of algae and light woody debris is found on most beaches. Area fully exposed to wave energy.

Response category 7. Conventional response is not realistic based upon current technology. \*Extreme current \*High energy shoreline \*Offshore rocks

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird colonies

B. Epibiotic communities: mytilus, barnacles, urchins, abalone.

C. Marine mammals. haulout for harbor seals, others.

D. Algal communities consisting primarily of Nereocystus, Postelsia, various laminaria, and encrusting corraline algae. Phyllospadix (Surfgrass)

**ARCHAEOLOGICAL CONCERNS:** Cemetery for early sailors located on bluff top above Noyo Harbor entrance.

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Ca Dept. of Fish and Game, Fort Bragg

(707) 964-9078

Georgia Pacific Corporation

(707) 964-5651

Mendocino County Sheriff's Dept. (24 hr.)

(707) 463-4086

Ca DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

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## SITE SUMMARY SHEET

**SITE:** NC-076-A Noyo Harbor Entrance and Dolphin Cove OSPR Map #: 031

**County:** Mendocino

**USGS 7.5' Quad. name:** Mendocino

**NOAA Chart:** 18626

**Lat:** 39 25'30" N

**Long:** 123 48'30" W

**Rev:** 07/01/96

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Noyo Harbor entrance: from U.S. Hwy 101 at Willits, take state hwy 20 to state hwy 1 at Fort Bragg. Turn north on state hwy 1 and continue to the north side of the Noyo River bridge. Turn east on North harbor Drive and continue to it's end (about 1 mile).

Dolphin Cove: from Hwy 20, 0.25 miles E. of Hwy 1, turn N. on S. Harbor Drive. Go 0.25 miles to base of grade and turn right on Basin St. Follow Basin St. past USCG station and harbormasters office to it's end at Dolphin Cove Marina (1.5 miles).

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Permanently stabilized inlet subject to large waves, strong tidal currents, and strong river outflow. A fine/medium-grained sand beach lies just north of the north jetty. The entire shoreline between the jetties and the state Hwy 101 bridge is gravel or riprap. Both sides of the river channel for about .75 miles up-river is highly developed with piers on pilings.

Two marinas exist in the river. A large marina for commercial and recreational boats is located about .75 miles up-river. A smaller marina named Dolphin Cove is located about 2 miles up-river. See SISRS.

Response category 1. Easily accessed site. Close to pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Coastal seabirds, shorebirds, waterfowl incl. Osprey(CSC)(01-12)

B. Fish: Anadromous salmonids: Coho Salmon(FT) and Steelhead trout(FSS):

- spawning runs(09-06)

- juveniles/smolts(02-08)

Inverts: Juvenile Dungeness Crab Nursery(07-10)

C. Surfperch and Surfsmelt spawn on the outer beaches.

**ARCHAEOLOGICAL CONCERNS:**

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Ca Dept. of Fish and Game, Fort Bragg  
Mendocino County Sheriff's Dept. (24 hr.)  
Ca DFG - OSPR Dispatch (24 hr.)

(707) 964-9078  
(707) 463-4086  
(916) 445-0045

# INLET SKETCH MAP

NOYO MARSH

Inlet Name ENFRANDE, CA

Recorder(s) MOH/THH

Date/Time 11 Nov 1992, 1550

Tide Stage Low @ 1741 (-0.7), river

Inlet Classification A

## CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

## LEGEND

xxxxxxx

Recommended  
Oil-Catchment Area

X X

Salt-Water Marsh

~ ~ ~

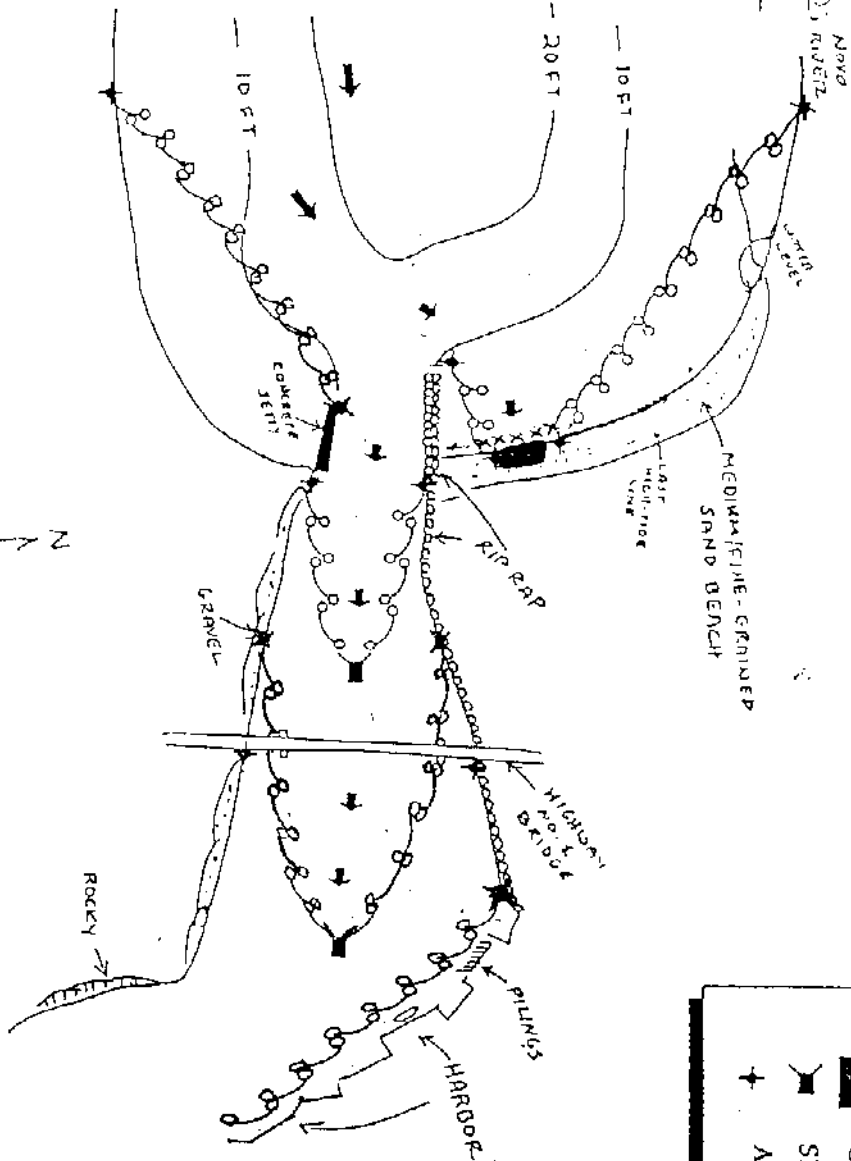
Fresh-Water Marsh

→ →

High-Tide  
Overwash Zone

~~~~~

Last High-Tide
Swash Line



POTENTIAL PROTECTION STRATEGY (FLOOD TIDE)

- Path Of Oil
- Deflection Boom
- Oil On Shoreline
- ✕ Skimmer Placement
- ✚ Anchor Point/Hinge Line
- ✚ Hinge Line

Site name and no. Noyo Harbor/Noyo River Inlet (Dolphin Cove)

CHECK-LIST

North arrow

Scale

LEGEND



boom skimmer

-XXXXXXXX-

oil

catchment

area



oil on shoreline



path of oil

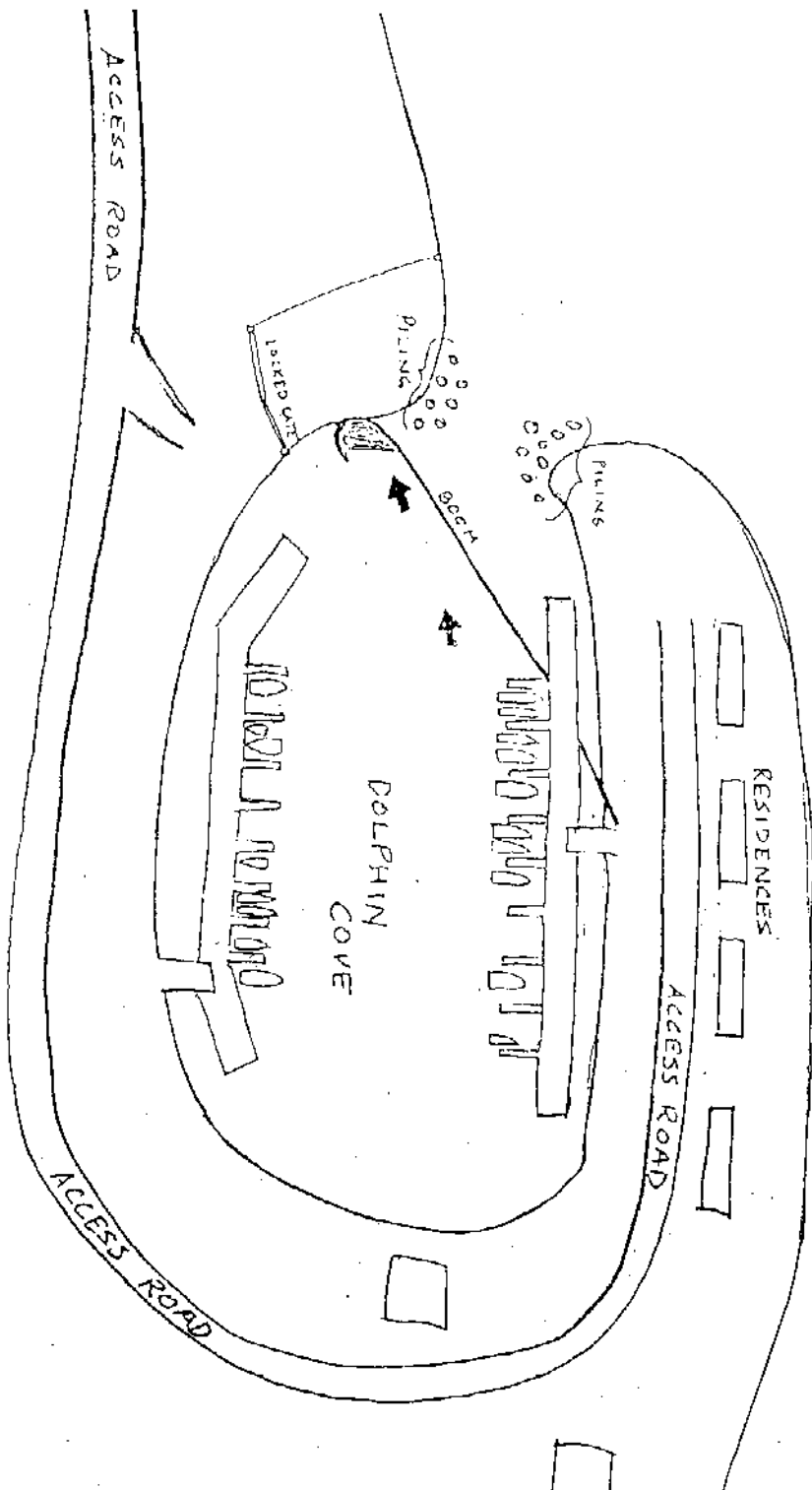
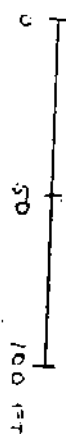


anchor point/hinge line



Noyo RIVER

SCALE



SITE SUMMARY SHEET

SITE: NC-077-B South Fort Bragg

OSPR Map #: 031

County: Mendocino

USGS 7.5' Quad. name: Fort Bragg

NOAA Chart: 18626

Lat: 39 24'30" N

Long: 123 49'30" W

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 to Willits. Go west on State Hwy 20 to State Hwy 1 at Fort Bragg. Turn south on State Hwy 1.

Hare Creek - From Hwy 1, just S. of the Hwy 1 Hare Crk, bridge, turn southwest on Old Coast Rd at MP 59.60. After 0.2 mi. turn W. on Cypress Rd. Follow to 18700 Cypress Rd. A small, steep foot trail leads to the Creek. Equipment may access the creek on the northside of the river. Turn W. at (signal light) leading to College of the Redwoods and follow road to it's end. Access will be difficult because of private property along river bank. Contact private property owners. Some damage might occur to lawns and fences. Otherwise, the slope to the river appears low enough to permit equipment access.

Digger Creek may be accessed by foot only through the private botanic gardens S. of Hare Creek.

Mitchell Creek - From Hwy 1, south of Fort Bragg, turn W. on Ocean Drive at MP 57.50. Follow Ocean Drive 0.3 miles to Pine Beach Inn parking lot.

Jughandle Creek - Access by foot only from parking lot on W. side of Hwy 1, south of Ft. Bragg, at MP 56.00.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Four seasonal tidal inlets (Hare Creek, Mitchell Creek, Jughandle Creek, Digger Creek) excising coastal bluffs and flowing across medium grained sandy beaches are found within this site. Small lagoons occasionally form within each creek, but because of the ephemeral nature of the lagoons, wetlands (marshes) have not formed. High tides probably overwash into the lagoons.

3. Difficult access. Close to pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. All three creeks are visited by foraging shorebirds and seabirds.

ARCHAEOLOGICAL CONCERNS: Yes, at Digger Creek.

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca Dept. of Fish and Game, Fort Bragg
Mendocino County Sheriff's Dept. (24 hr.)
Ca DFG - OSPR Dispatch (24 hr.)
Bill Berry, CA ST Parks, Mendocino Dist. HQ,

(707) 964-9078
(707) 463-4086
(916) 445-0045
(707) 961-1001

INLET SKETCH MAP

HARE CREEK

Inlet Name INLET, CA.

Recorder(s) MDH/TMM

Date/Time 11 Nov. 1992; 1515

Tide Stage Low (01741(-07)) NOYO RIVER

Inlet Classification D

CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

LEGEND

—xxxxxxx—

Recommended
Oil-Catchment Area

~ ~

Salt-Water Marsh

~ ~ ~

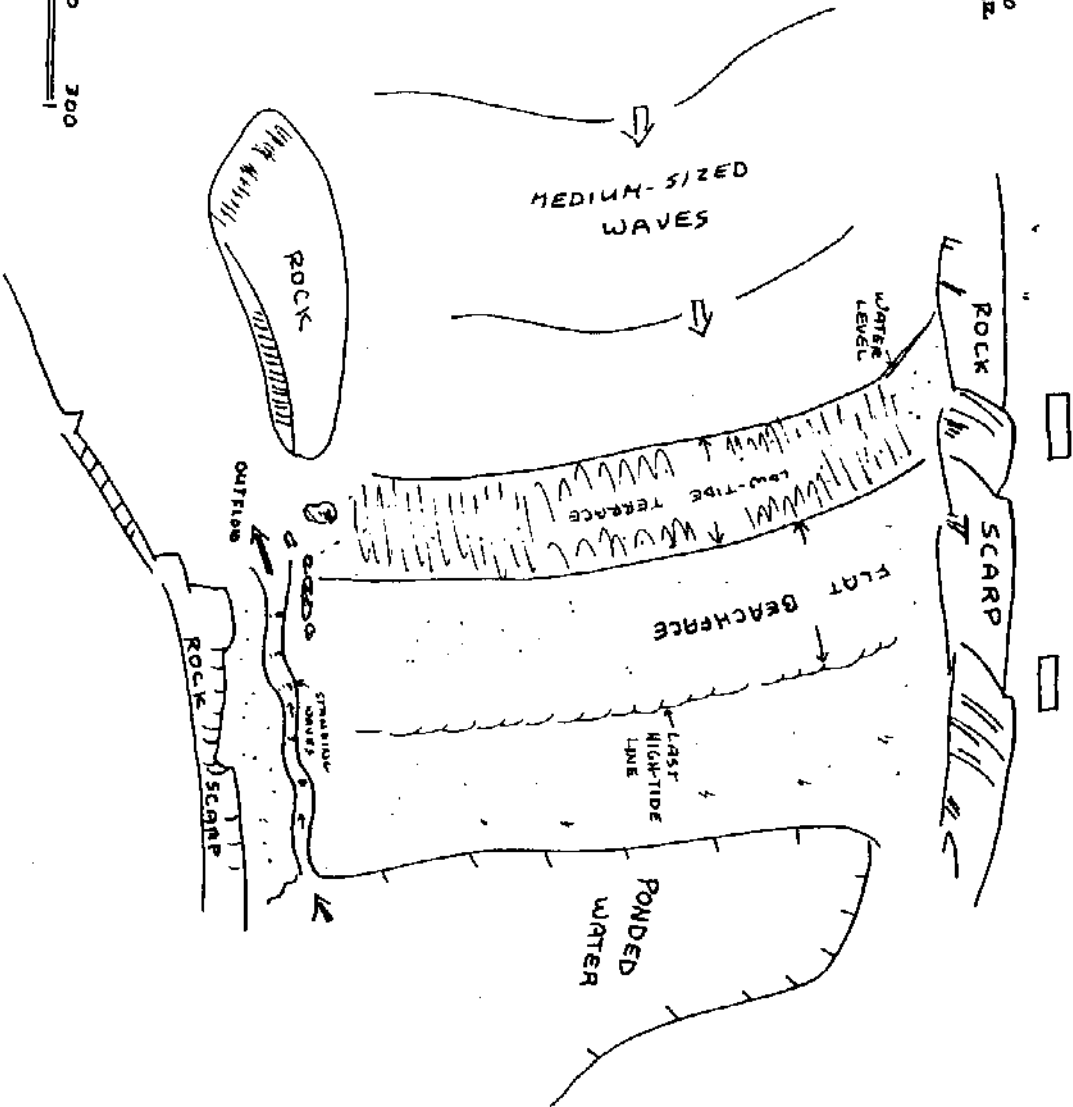
Fresh-Water Marsh

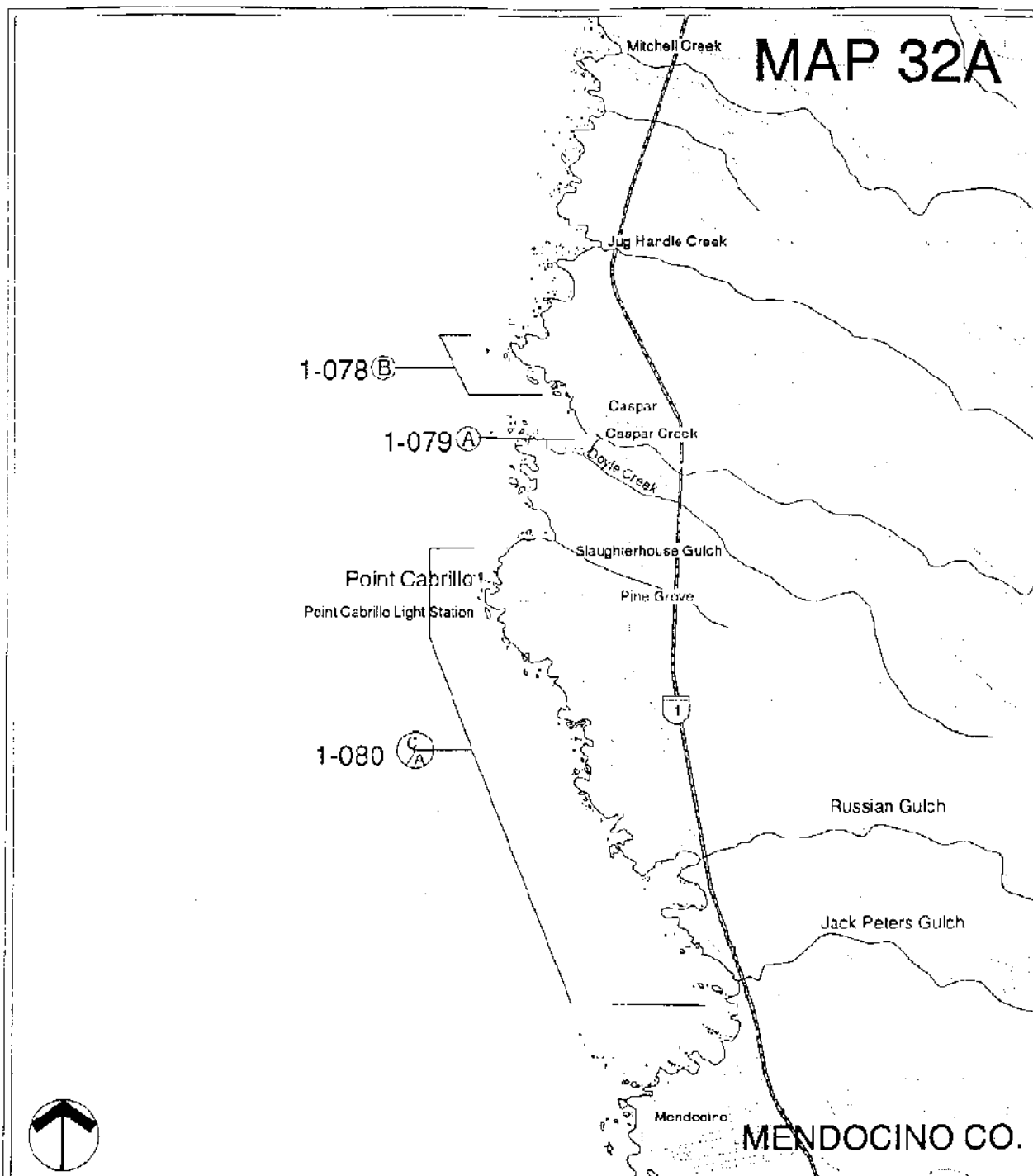
→ →

High-Tide
Overwash Zone

~~~~~

Last High-Tide  
Swash Line





## ENVIRONMENTAL SENSITIVITY RANKING



- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993



SEASONALITY

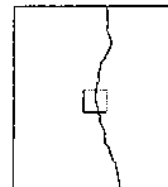
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0 1 2 MILES

ALBERS PROJECTION - NORTH AMERICAN DATUM OF 1927

E-V-173 change #1

## INDEX MAP



This map includes USGS quad sheets of Mendocino

The comparable NOAA nautical chart is Albion to Casper



## SITE SUMMARY SHEET

**SITE:** NC-078-B Caspar Point

**OSPR Map #:** 32A

**County:** Mendocino

**Lat/Long:** 39 22'/123 49'30"

**USGS 7.5' Quad. name:** Mendocino

**Rev:** 07/01/96

**NOAA Chart:** 18626

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 to Willits. Go west on State Hwy 20 to State Hwy 1 at Fort Bragg. Turn south on State Hwy 1. Continue until town of Caspar is reached. This town is located on Caspar Point.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Steep rocky headlands and offshore rocks.

Response category 7. Conventional response is not realistic based upon current technology. \*Extreme  
current \*High energy  
shoreline \*Offshore rocks

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird colonies. Primarily Pelagic Cormorant, Pigeon Guillemot, and Western Gull.

**ARCHAEOLOGICAL CONCERNS:**

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Ca Dept. of Fish and Game, Fort Bragg

(707) 964-9078

William Berry, Ca ST Parks, Mendocino Dist. HQ

(707) 961-1001

Mendocino County Sheriff's Dept. (24 hr.)

(707) 463-4086

Ca DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

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## SITE SUMMARY SHEET

**SITE:** NC-079-A Caspar Creek and Doyle Creek

**OSPR Map #:** 32A

**County:** Mendocino

**USGS 7.5' Quad. name:** Mendocino

**NOAA Chart:** 18626

**Lat/Long:** 39 21'30"/123 49'

**Rev:** 07/01/96

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 to Willits. Go west on State Hwy 20 to State Hwy 1 at Fort Bragg. Turn south on State Hwy 1. Take Pt. Cabrillo Drive (MP 54.66) W. from Hwy 1 on the S. side of Caspar Ck bridge. Follow for 0.5 miles to pull out on Caspar Crk beach. Access for beach is VIA Sandy Rd. 0.3 miles past turnout and near Caspar Beach RV park.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Creeks flow alongside bedrock bluffs (Caspar Creek along the North Bluff; Doyle the South bluff) and across medium grained sandy beaches. Caspar Creek has a small lagoon with a fringing marsh on it's east side. Some wetland areas also exist along Doyle Creek. Riprap fronts the access road at the back of the beach and could be oiled under storm conditions.

Response category 1. Easily accessed site. Close to pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Freshwater and saltwater marsh areas in Caspar and Doyle Creeks.

B. Foraging seabirds and shorebirds. Waterfowl resting, feeding, nesting in the small Caspar Creek lagoon.

C. Steelhead trout(FSS) - spawning(10-06), juveniles/smolts(02-08).

**ARCHAEOLOGICAL CONCERNS:**

---

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

|                                                                 |                |
|-----------------------------------------------------------------|----------------|
| Ca Dept. of Fish and Game, Fort Bragg                           | (707) 964-9078 |
| Coastal Conservancy, Steve Horn. (maintains Pt. Cabrillo Light) | (707) 937-0816 |
| Mendocino County Sheriff's Dept. (24 hr.)                       | (707) 463-4086 |
| Ca. DFG - OSPR Dispatch (24 hr.)                                | (707) 445-0045 |

Site name and no. Caspar Creek (Caspar Creek and Doyle Creek)

CHECK-LIST

North arrow  
Scale

LEGEND

boom skimmer  
-XXXXXXXX-

oil  
catchment  
area

oil on  
shoreline

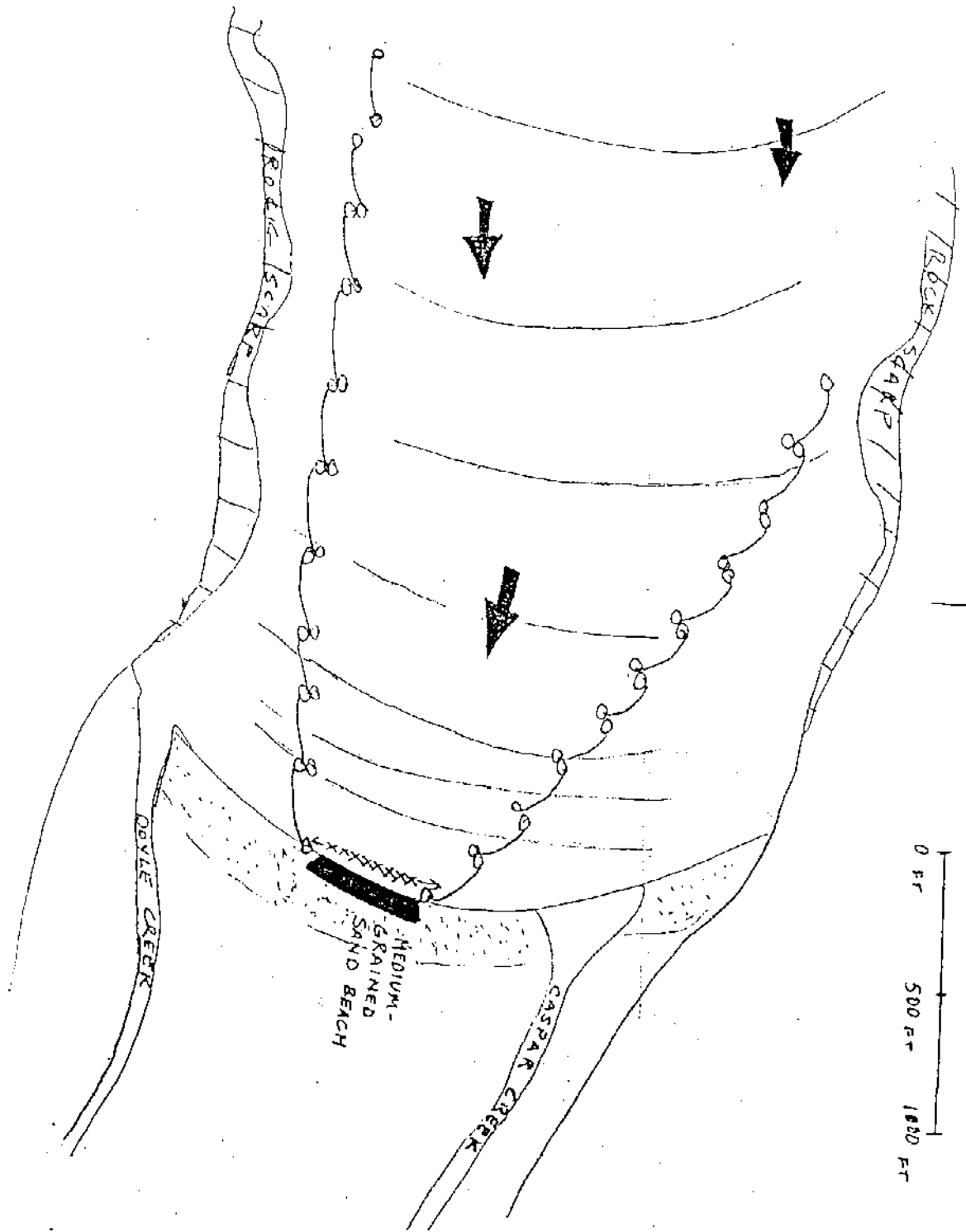
path  
of oil

anchor point/  
hinge line

SCALE

0 FT 500 FT 1000 FT

N



## SITE SUMMARY SHEET

**SITE:** NC-080-A Pt Cabrillo to Russian Gulch

**OSPR Map #:** 32A

**County:** Mendocino

**USGS 7.5' Quad. name:** Mendocino

**NOAA Chart:** 18626

**Lat:** 39 20'30" N

**Long:** 123 49'30" W

**Rev:** 07/01/96

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From U.S. Hwy 101 at Willits, take state hwy 20 to state hwy 1 at Fort Bragg. Go south on state hwy 1 to (MP 54.66). Continue 1.2 miles, passing Caspar Creek Beach, to Lighthouse road. Turn west on Lighthouse road to unlocked gate.

For access to Russian Gulch. Exit W. form Hwy 1 at S. exit to Pt. Cabrillo Drive (MP 52.97). Immediately turn left into Russian Gulch St. Park entrance. Continue 0.5 miles to end of road.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Ca DFG Marine Reserve. Fully exposed bedrock outcroppings and wave-cut platforms. Surge channels and pocket coves with sheer bedrock walls. Some channels and pocket coves have gravel beaches at their inland end. Algal debris abundant in some protected channels and coves. No facilities. Access to beach limited by steep rock walls. Jack Peters creek excises a deep gulch and flows across a medium grained sand beach. No lagoon or wetlands present.

Response category 1. Easily accessed site. Close to pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabirds. Black Oystercatchers, Pelagic Cormorants, and Pigeon Guillemots (4 - 8). Lotus Blue butterfly (FE)(01-12) in sphagnum bogs within stands of pine near the point.

B. Epifauna includes abalone, mussels, urchins, goose-neck barnacles sensitive throught the year.

Harbor Seal - Haul outs and pupping areas

Steelhead trout(FSS) - spawning run(10-06), juveniles/smolts(02-08)

C. Predominant flora is Postelsia, Nereocystus, and Egregia. Sensitive throughout the year.

**ARCHAEOLOGICAL CONCERNS:** no

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Ca Dept. of Fish and Game, Fort Bragg (707) 964-9078

Ca St. Parks, Mendocino Dist HQ,

(707) 961-1001

Caretaker, Pt. Cabrillo light, Coastal Cons. (707) 937-0816

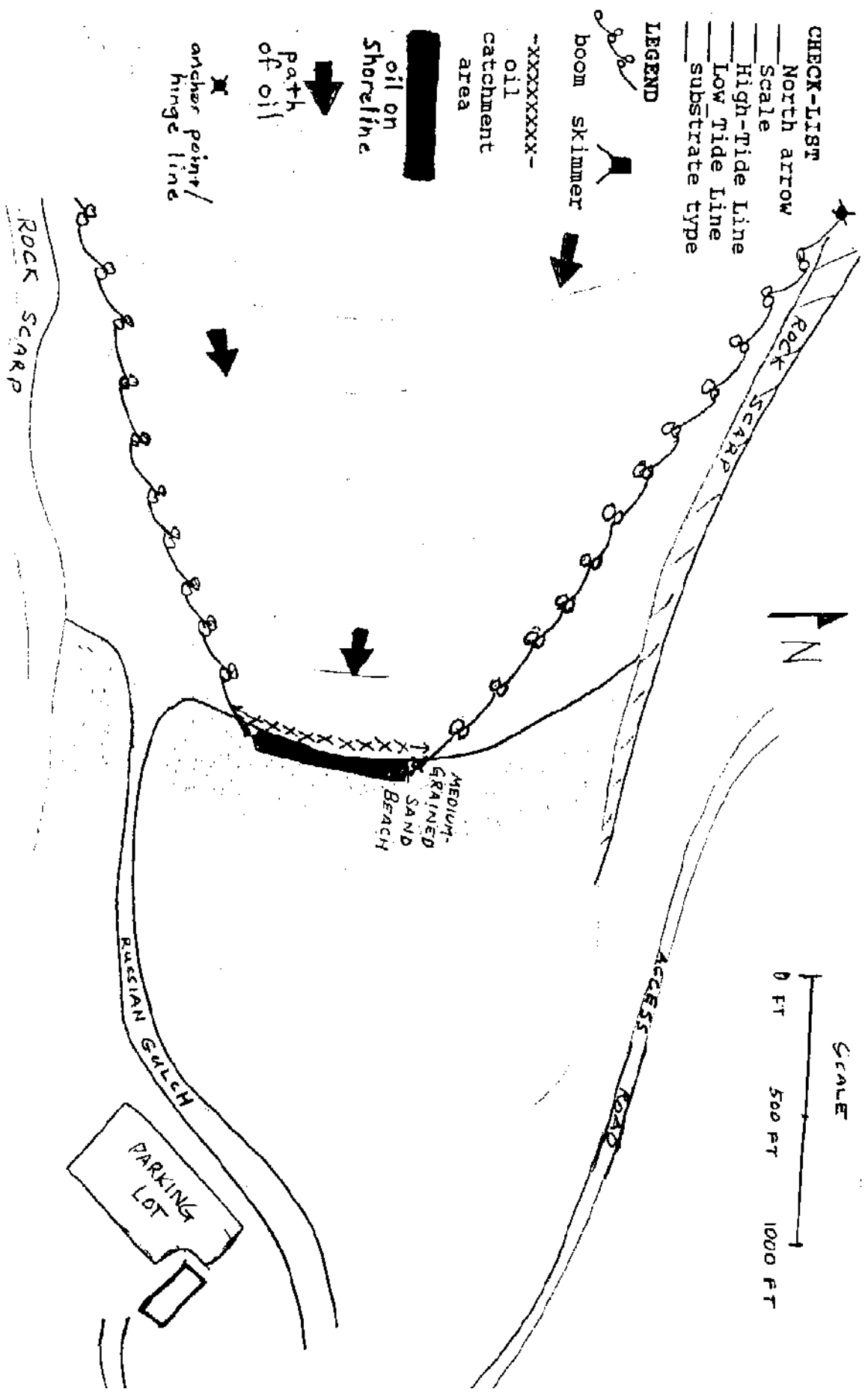
Mendocino County Sheriff's Dept. (24 hr.)

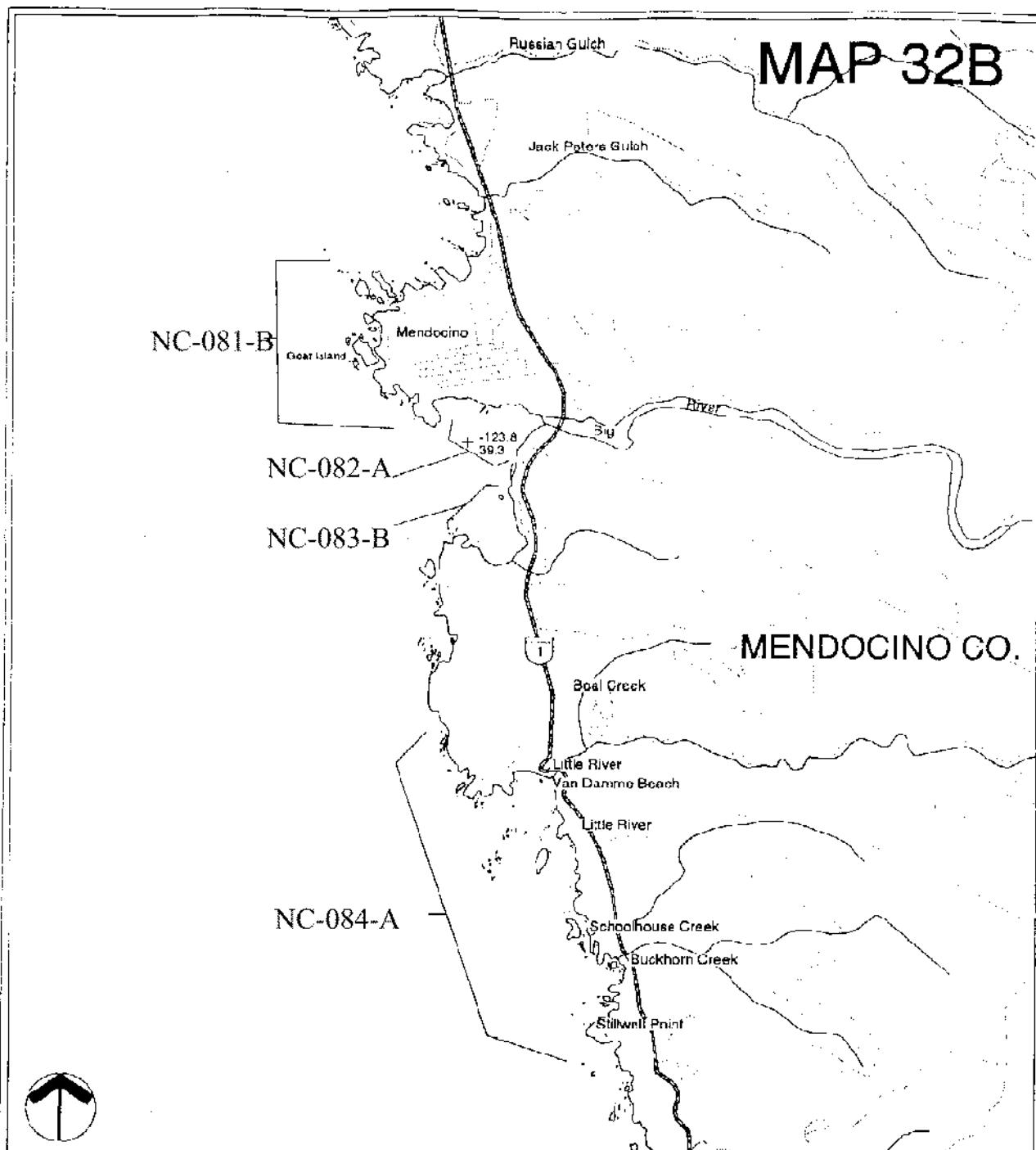
(707) 463-4086

Ca DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

Site name and no. Point Cabrillo (Russian Gulch)

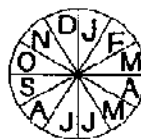




## ENVIRONMENTAL SENSITIVITY RANKING

- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993



SEASONALITY

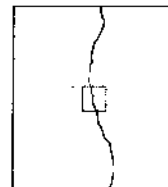
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0 1 2 MILES

ALBERS PROJECTION, NORTH AMERICAN DATUM OF 1927

change #1

## INDEX MAP



This map includes USGS quad sheets of Mendocino

The comparable NOAA nautical chart is Albion to Casper

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## SITE SUMMARY SHEET

**SITE:** NC-081-B Mendocino Headlands St. Pk.

**OSPR Map #:** 32B

**County:** Mendocino

**Lat/Long:** 39 18' 123 48' 30"

**USGS 7.5' Quad. name:** Mendocino

**Rev:** 07/01/96

**NOAA Chart:** 18626:

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From U.S. Hwy 101 at Willits, take state hwy 20 to state hwy 1 at Fort Bragg. Go south on state hwy 1 to the Mendocino exit from state hwy 1. In Mendocino, take Heeser Drive to it's end at the headlands.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Rocky bluffs, surge channels, seawalls and offshore rocks. Fully exposed to wave energy.

Response category 7. Conventional response is not realistic based upon current technology. \*Extreme current \*High energy shoreline \*Offshore rocks

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird colonies, primarily for Pelagic Cormorant, Pigeon Guillemot, and Western Gull.

**ARCHAEOLOGICAL CONCERNS:**

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Ca Dept. of Fish and Game, Fort Bragg  
Ca St. Parks, Mendocino Dist HQ,  
Mendocino County Sheriff's Dept. (24 hr.)  
Ca DFG - OSPR Dispatch (24 hr.)

(707) 964-9078  
(707) 961-1001  
(707) 463-4086  
(916) 445-0045

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## SITE SUMMARY SHEET

**SITE:** NC-082-A Big River

**OSPR Map #:** 32B

**County:** Mendocino

**Lat/Long:** 39 18'/123 47'30"

**USGS 7.5' Quad. name:** Mendocino

**Rev:** 07/01/96

**NOAA Chart:** 18626

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From U.S. Hwy 101 at Willits, take state hwy 20 to state hwy 1 at Fort Bragg. Go south on Hwy 1. From hwy 1, south side of hwy 1 bridge over Big River at Mendocino, go east on North Big River Rd. Follow road 0.2 miles to parking lot. At low tide, vehicles could access mouth of river by proceeding along beach approx. 0.5 miles. At higher tides, no access to mouth is possible by vehicle. Boat launch on N. side of river is avail. It is near the parking lot on N. Big River Road.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Wide sandy tidal inlet with well developed marsh complex upstream along channel margins. Strong tidal currents.

Response category 1. Easily accessed site. Close to pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Area is visited by foraging shorebirds and seabirds Osprey(CSC)(01-12).

B. Fish: Anadromous salmonids: Coho salmon(FT) and Steelhead trout(FSS):

- spawning runs(09-06)
- juveniles/smolts(02-08)

Herring spawn in eelgrass. River serves as dungeness crab nursery at times.

**ARCHAEOLOGICAL CONCERNS:**

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Ca Dept. of Fish and Game, Fort Bragg  
Ca St. Parks, Mendocino Dist HQ,  
Mendocino County Sheriff's Dept. (24 hr.)  
Ca DFG - OSPR Dispatch (24 hr.)

(707) 964-9078  
(707) 961-1001  
(707) 463-4086  
(916) 445-0045

# INLET SKETCH MAP

Big River

Inlet Name Inlet, CA.

Recorder(s) Molt/TMH

Date/Time 11/20/1992, 11:00

Tide Stage Low (1741.0-1742.0) Noyo River

Inlet Classification B

## CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

## LEGEND

xxxxxxx

Recommended  
Oil-Catchment Area

✓

Salt-Water Marsh

✓

Fresh-Water Marsh

→

High-Tide  
Overwash Zone

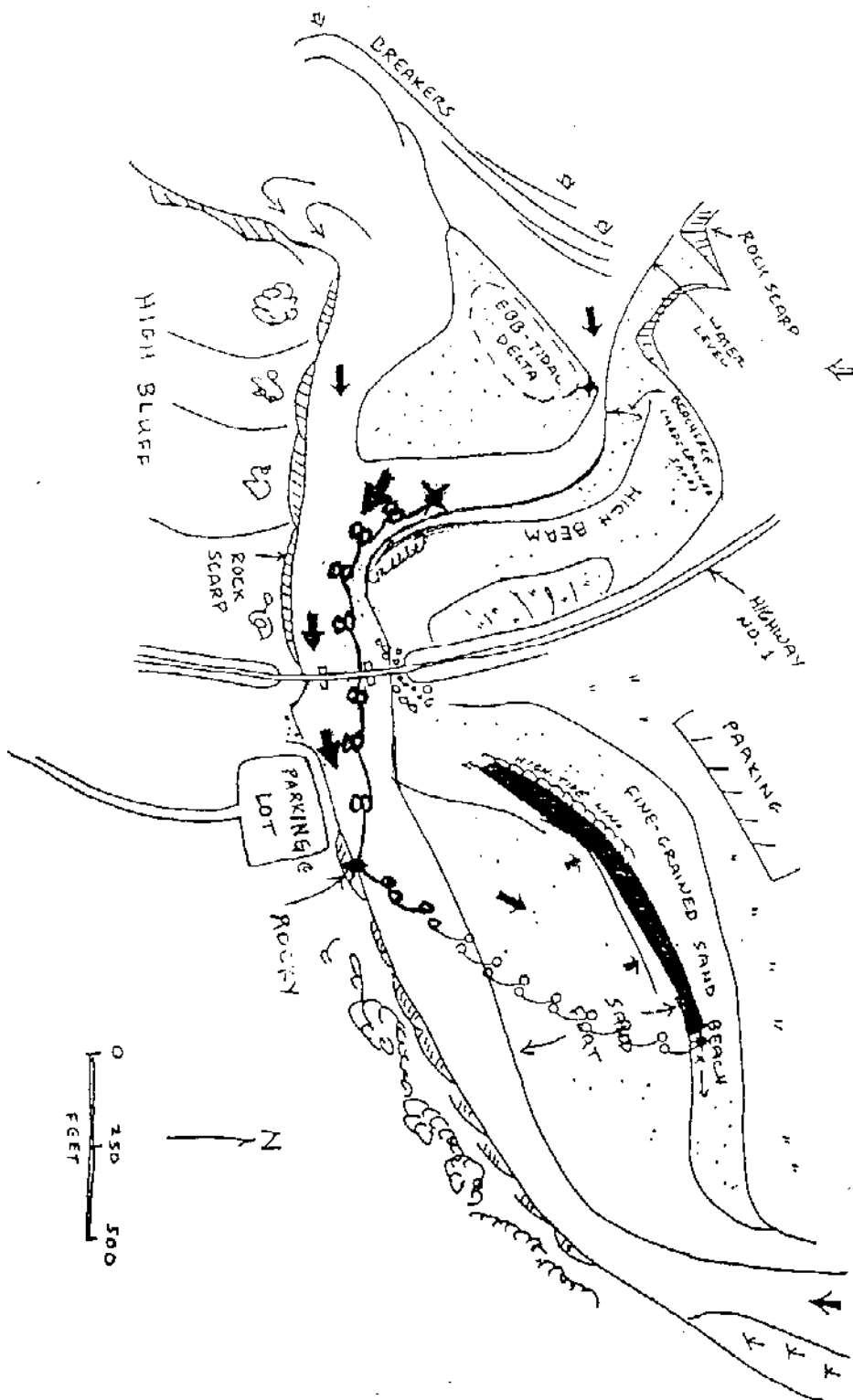
~~~~~

Last High-Tide
Swash Line

MEN DO CINO

↑

↑



POTENTIAL PROTECTION STRATEGY (FLOOD TIDE)

- Path Of Oil
- ~~~~~ Deflection Boom
- Oil On Shoreline
- + Anchor Point / Hinge Line

SITE SUMMARY SHEET

SITE: NC-083-B Mendocino Bay

OSPR Map #: 32B

County: Mendocino

USGS 7.5' Quad. name: Mendocino

NOAA Chart: 18626

Lat: 39 15'30" N

Long: 123 47'30" W

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From U.S. Hwy 101 at Willits, take state hwy 20 to state hwy 1 at Fort Bragg. Go south on Hwy 1. From hwy 1, south side of hwy 1 bridge over Big River at Mendocino, go east on North Big River Rd. Follow road 0.2 miles to parking lot.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Large crescent shaped bay opening to the west. Big River (NC-082-A) enters the ocean at this point. Offshore rocks.

Response category 1. Easily accessed site. Close to pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird rookeries(03-09): Brandts and Pelagic Cormorant, Black Oystercatcher, Western Gull, Pigeon Guillemot, Tufted Puffin(CSC) Roosts(01-12).

B. Marine Mammals: Use area for haul-outs

ARCHAEOLOGICAL CONCERNS: _____

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca Dept. of Fish and Game, Fort Bragg
Mendocino County Sheriff's Dept. (24 hr.)
Ca DFG - OSPR Dispatch (24 hr.)

(707) 964-9078
(707) 463-4086
(916) 445-0045

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SITE SUMMARY SHEET

SITE: NC-084-A Van Damme State Park and Little River **OSPR Map #:** 32B

County: Mendocino
USGS 7.5' Quad. name: Mendocino
NOAA Chart: 18626

Lat/Long: 39 18'/123 48'30"
Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From U.S. Hwy 101 at Willits, take state hwy 20 to state hwy 1 at Fort Bragg. Go south on Hwy 1 to MP 48.03, about 3 miles south of the town of Mendocino. Van Damme St. Park lies alongside state hwy 1. Little River crosses the beach at this point.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Little River crosses a medium to coarse grained sandy beach (Van Damme State Park) to reach a small crescent shaped bay. Gradient is steep. No wetlands or marsh areas likely to be impacted. Offshore rocks.

Response category 3. Difficult access. Close to pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Shorebirds forage along Van Damme State Park beach Seabird rookeries(03-09): Pelagic Cormorant, Pigeon Guillemot, Western Gull, are Tufted Puffin(CSC). Roosts (01-12). Osprey(CSC)(01-12).

B. Kelp beds are located offshore of the beach. A variety of algae are found on the offshore rocks.

C. Fish: Anadromous salmonids: Coho salmon(FT) and Steelhead trout:

- spawning runs(09-06)
- juveniles/smolts(02-08)

D. Pacific Harbor Seal haul-out.

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca Dept. of Fish and Game, Fort Bragg (707) 964-9078
Ca St. Parks, Mendocino Dist HQ,
National Marine Fisheries Service, Joe Cordaro
Mendocino County Sheriff's Dept. (24 hr.)
Ca DFG - OSPR Dispatch (24 hr.)

(707) 961-1001
(310) 980-4017
(707) 463-4086
(916) 445-0045

INLET SKETCH MAP

LITTLE RIVER

Inlet Name INLET, CA.

Recorder(s) MOH/TMH

Date/Time 11 NOV. 1992, 1230

Tide Stage HIGH @ 1116 (16-17) ^{NOAD} _{RIVER}

Inlet Classification D

CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

LEGEND

-----XXXXXXXX-----

Recommended
Oil-Catchment Area

~ ~

Salt-Water Marsh

~ ~

Fresh-Water Marsh

→ →

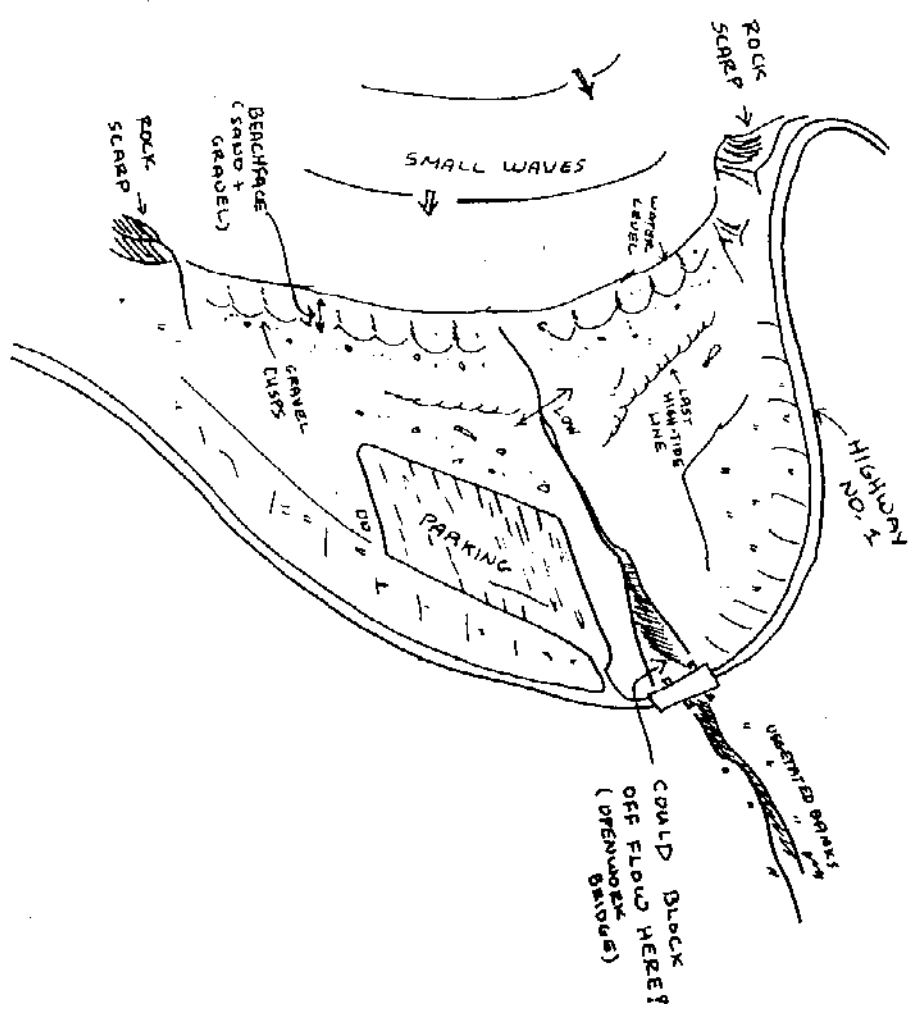
High-Tide
Overwash Zone

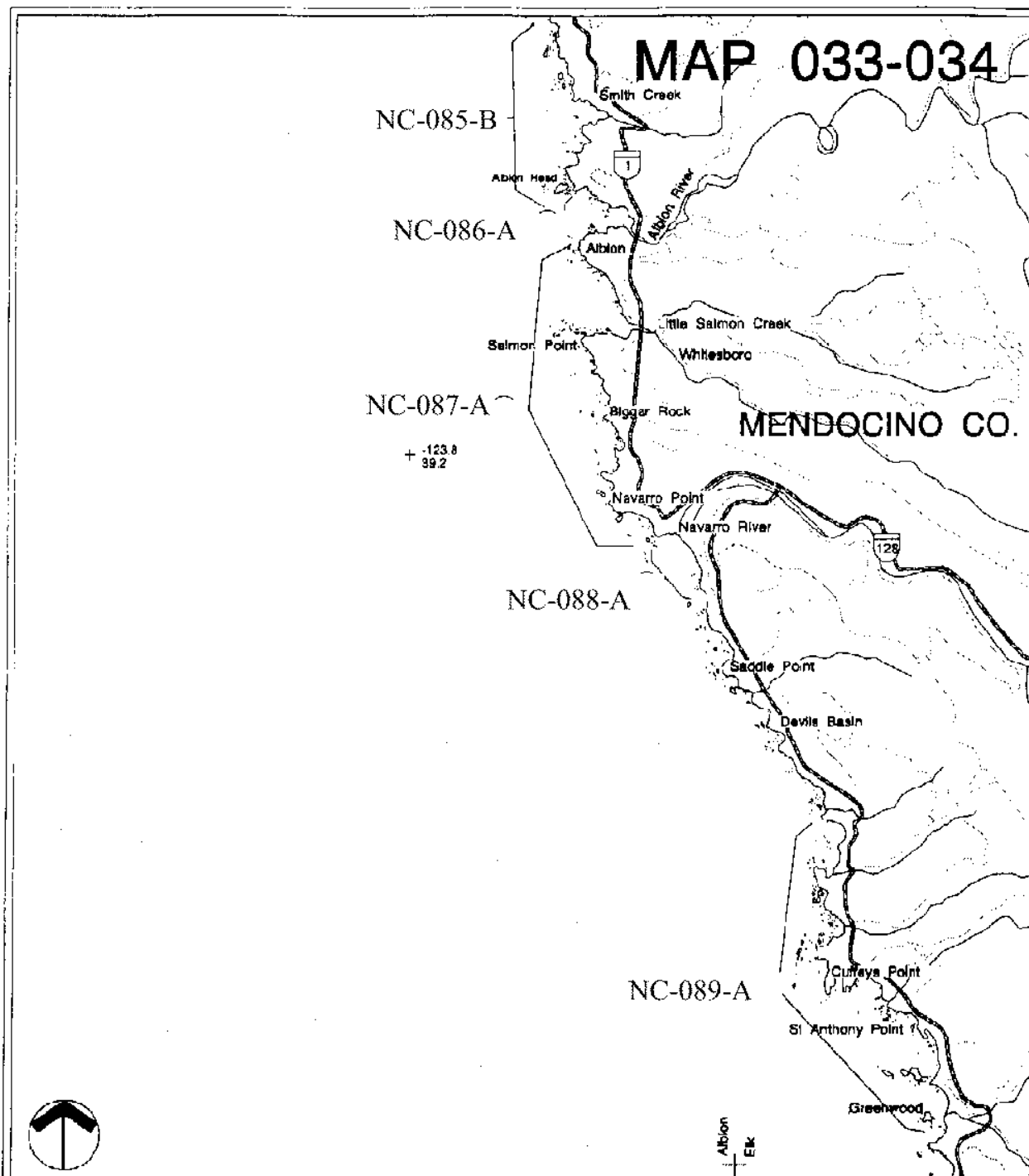
~ ~ ~ ~

Last High-Tide
Swash Line

N

0 100 100
FEET





ENVIRONMENTAL SENSITIVITY RANKING

- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993



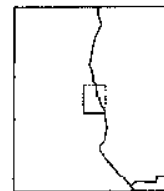
SEASONALITY

SCALE = 1:58117

0 1 2 3 MILES

ALBERS PROJECTION - NORTH AMERICAN 1983 EDITION OF 1927

INDEX MAP



This map includes USGS quad sheets of Albion & Elk

The comparable NOAA nautical chart is Elk to Fort Bragg

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SITE SUMMARY SHEET

SITE: NC-085-B Dark Gulch

OSPR Map #: 033-034

County: Mendocino

Lat/Long: 39 14'/123 47'

USGS 7.5' Quad. name: Albion

Rev: 07/01/96

NOAA Chart: 18626

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From U.S. Hwy 101 at Cloverdale, take state hwy 128 to state hwy 1 at the mouth of the Navarro River. Go south on Hwy 1 to Heritage House Inn (MP 45.47). Beach accessible by foot, only. A crane could access bluffs (80 feet above beach). Limited access by boats because of depth limitations.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Steep gradient coastal stream. Cobbled beach with kelp debris. Bedrock headlands. Offshore rocks and seastacks.

Response category 3. Difficult access. Close to pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird rookeries(03-09): Rocky headlands, offshore rocks, and seastacks shelter Pelagic Cormorant, Pigeon Guillemot, Western Gull, Black Oystercatcher.

B. Fish: Anadromous salmonids: Coho salmon(FT) and Steelhead trout(FSS):

- spawning runs(09-06)
- juveniles/smolts(02-08)

ARCHAEOLOGICAL CONCERNS: _____

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca Dept. of Fish and Game, Fort Bragg	(707) 964-9078
Ca St. Parks, Mendocino Dist HQ,	(707) 961-1001
Heritage House Inn (Property owner),	(707) 937-5885
Mendocino County Sheriff's Dept. (24 hr.)	(707) 463-4086
Ca DFG - OSPR Dispatch (24 hr.)	(916) 445-0045

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SITE SUMMARY SHEET

SITE: NC-086-A Albion River

OSPR Map #: 033-034

County: Mendocino

USGS 7.5' Quad. name: Albion

NOAA Chart: 18626

Lat: 39 13'30" N

Long: 123 47'30" W

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From U.S. Hwy 101 at Cloverdale, take state hwy 128 to state hwy 1 at the mouth of the Navarro River. Go south on Hwy 1 to MP 45.47, at the north end of the Albion River bridge. Turn east on Albion Riverside Road at this point and follow road to Albion River Campground.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Navigable tidal inlet. Offshore rocks. Vertical seawalls and steep rocky bluffs.

Response category 1. Easily accessed site. Close to pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird rookeries(03-09): rocky headlands, offshore rocks, and seawalls shelter Pelagic Cormorant, Pigeon Guillemot, Osprey(CSC)(01-12).

B. Fish: Anadromous fish: Coho salmon(FT) and Steelhead trout(FSS):

- spawning runs(09-06)
- juveniles/smolts(02-08)

Striped Surfperch nursery. Extensive areas of Surfgrass along vertical seawalls on northern side of entrance bay. Eelgrass and associated communities in estuary

ARCHAEOLOGICAL CONCERNS: _____

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca Dept. of Fish and Game, Fort Bragg
Ca St. Parks, Mendocino Dist HQ,
Mendocino County Sheriff's Dept. (24 hr.)
Ca DFG - OSPR Dispatch (24 hr.)

(707) 964-9078
(707) 961-1001
(707) 463-4086
(916) 445-0045

INLET SKETCH MAP

ALBION RIVER

Inlet Name INLET, CA.

Recorder(s) MOH/THH

Date/Time 11 Nov. 1992, 1130

Tide Stage High (102.6-3) POINT AREA

Inlet Classification B

CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

LEGEND

-----XXXXXXX-----

Recommended
Oil-Catchment Area

✓ ✓

Salt-Water Marsh



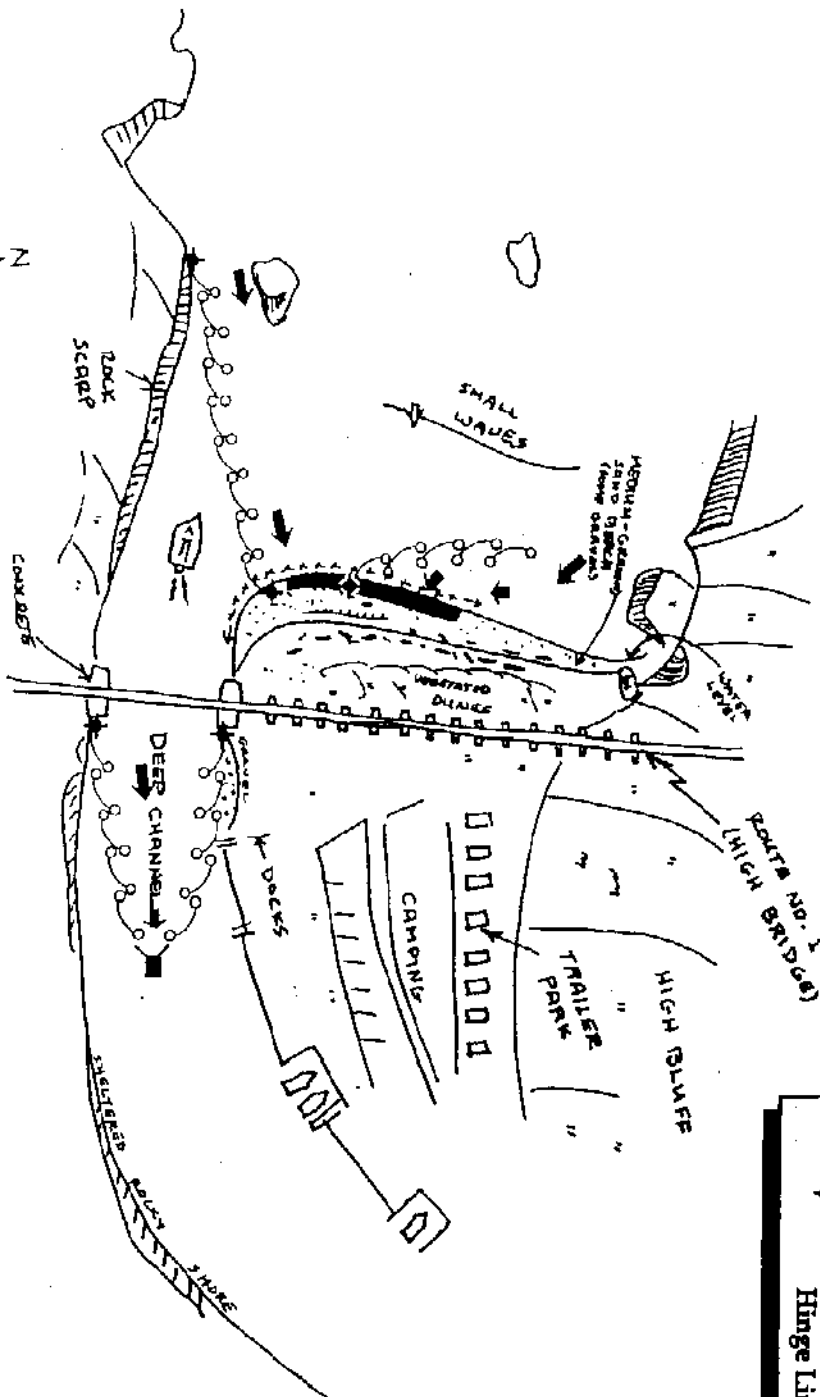
Fresh-Water Marsh



High-Tide
Overwash Zone



Last High-Tide
Swash Line



POTENTIAL PROTECTION STRATEGY (FLOOD TIDE)

- Path Of Oil
- Deflection Boom
- Oil On Shoreline
- Skimmer Placement
- Anchor Point / Hinge Line

SITE SUMMARY SHEET

SITE: NC-087-A Salmon Point and Big Salmon Creek

OSPR Map #: 033-034

County: Mendocino

USGS 7.5' Quad. name: Albion

NOAA Chart: 18626

Lat: 39 12' 30" N

Long: 123 46' 30" W

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From U.S. Hwy 101 at Cloverdale, take state hwy 128 to state hwy 1 at the mouth of the Navarro River. Go south on Hwy 1 to MP 43.50 (north end of Salmon Creek bridge) and turn west on Spring Grove Rd (county route 401). Proceed downhill to residences along creek mouth (about 2 miles).

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Rocky bluffs, offshore rocks, and tidal inlet to Big Salmon Creek. Fine to medium grained sandy beach on the northside of the creek. Fringing marsh within Big Salmon Creek.

Response category 2. Easily accessed site. (20+ miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Seabirds, Shorebirds, Waterfowl, Raptors Colonies primarily Pelagic Cormorant, Pigeon Guillemot, Black Oystercatchers, Western Gulls. The small marsh is visited by foraging shorebirds and waterfowl e.g. Mergansers and Grebes. California Brown Pelican (FE, SE) (04-11), Osprey (CSC) (01-12), Canadian Geese (note: Aleutian Strain FE, SE).

B. Fish: Anadromous salmonids: Coho salmon (FT) and Steelhead trout (FSS):

- spawning runs (09-06)
- juveniles/smolts (02-08)

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca Dept. of Fish and Game, Fort Bragg
Mendocino County Sheriff's Dept. (24 hr.)
Ca DFG - OSPR Dispatch (24 hr.)

(707) 964-9078
(707) 463-4086
(916) 445-0045

INLET SKETCH MAP

BIG SALMON CREEK

Inlet Name INLET, CA.

Recorder(s) MOH/TMM

Date/Time 11 MAY 1972, 1045

Tide Stage High (1026 (+3)) ^{Point} Area

Inlet Classification D

CHECKLIST

- ✓ North Arrow
- ✓ Scale
- ✓ High-Tide Line
- ✓ Low-Tide Line
- ✓ Substrate Type

LEGEND

—xxxxxxx—
Recommended
Oil-Catchment Area

⌞ ⌞

Salt-Water Marsh

⌞

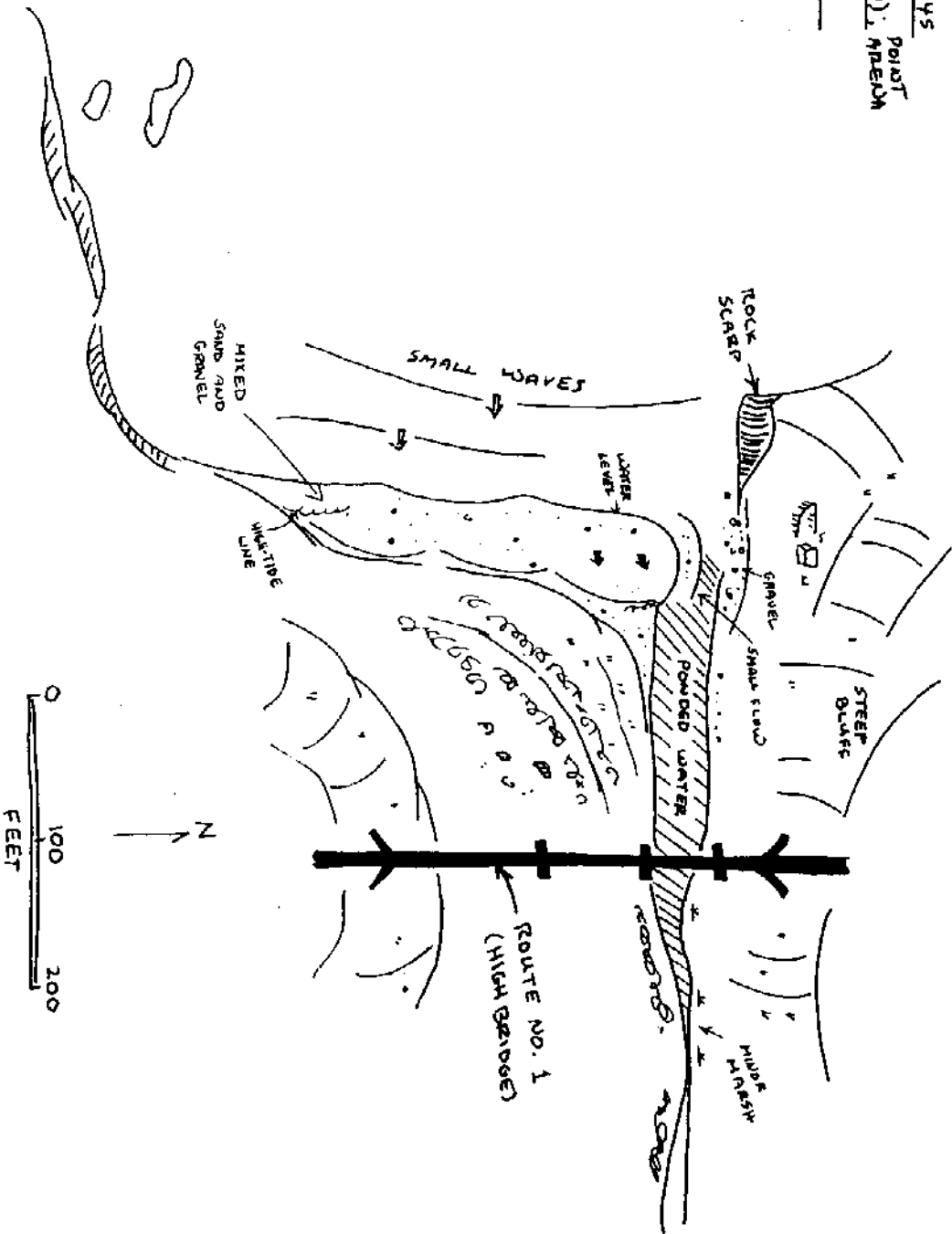
Fresh-Water Marsh

→ →

High-Tide
Overwash Zone

~~~~~

Last High-Tide  
Swash Line





## SITE SUMMARY SHEET

**SITE:** NC-088-A Navarro River St Pk

**OSPR Map #:** 033-034

**County:** Mendocino

**USGS 7.5' Quad. name:** Albion

**NOAA Chart:** 18626

**Lat:** 39 11'30" N

**Long:** 123 45'30" W

**Rev:** 07/01/96

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. hwy 101 to State Route 128 just north of Cloverdale. Follow State Route 128 to State hwy 1. After crossing the Navarro River Bridge, go west at M.P. 40.15 (Navarro Bluff road).

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Tidal inlet with a well-developed marsh system in the estuary.

Response category 2. Easily accessed site. (20+ miles) from pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Shorebirds, Seabirds, Wading birds, Waterfowl, Raptors incl. Osprey(CSC)(01-12). Ca. Brown Pelican(FE,SE)(04-11)

B. Fish: Anadromous salmonids: Coho salmon(FT) and Steelhead trout (FSS):

- spawning runs(09-06)

- juveniles/smolts(02-08)

**ARCHAEOLOGICAL CONCERNS:** \_\_\_\_\_

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Ca. DFG, Fort Bragg

(707) 964-9078

Greg Grantham, College of the Redwoods

(707) 961-1001

Ca. State Parks, Mendocino Dist. HQ

(707) 961-1001

Mendocino County Sheriff's Dept. (24 hr.)

(707) 463-4086

Ca DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

## NAJARGAO RIVER

Recorder(s) MOH/TMY

Tide Stage H164 @ 1026 (+6.3); NEBBN

## CHECKLIST

- North Arrow  
Scale  
High-Tide Line  
Low-Tide Line  
Substrate Type

## LEGEND

XXXXXXXXXX

- Recommended  
Oil-Catchment Area**

$$\pi$$

### Salt-Water Marsh

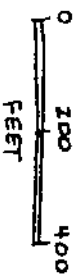







## Fresh-Water Marsh

High-Tide  
Overwash Zone

W

## Last High-Tide Swash Line



- POTENTIAL PROTECTION STRATEGY (FLOOD TIDE)**
- |                                                                                     |                                      |
|-------------------------------------------------------------------------------------|--------------------------------------|
|  | <b>Path Of Oil</b>                   |
|  | <b>Deflection Boom</b>               |
|  | <b>Oil On Shoreline</b>              |
|  | <b>Anchor Point /<br/>Hinge Line</b> |
|  | <b>Sediment Dike</b>                 |

## SITE SUMMARY SHEET

**SITE:** NC-089-A Greenwood Creek to Cuffey's Cove

**OSPR Map #:** 033-034

**County:** Mendocino

**USGS 7.5' Quad. name:** Elk

**NOAA Chart:** 18626

**Lat:** 39 08'30" N

**Long:** 123 44'30" W

**Rev:** 07/01/96

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. hwy 101 to State Route 128 just north of Cloverdale. Follow State Route 128 to Greenwood Road just north of Philo. Follow Greenwood Road to state Hwy 1. Turn Rt. and enter town of Elk. Access to the mouth of Greenwood Creek is by trail from the parking lot across from the Elk General Store on Hwy 1. The trail has been accessed by heavy machinery and could be quickly improved to allow access by heavy equipment, again. Foot access by St. Anthony's Beach and Harbor House Beach by private foot trail

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Rocky headlands, offshore rocks, and seasonal inlet to Greenwood Creek with small pockets of fringing marsh behind the beach.

Response category 4. Difficult access. Distance (20+ miles) from pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: seabird colonies of primarily Pelagic Cormorant, Pigeon Guillemot. Coastal shorebirds.

B. Marine Mammals: Pacific Harbor Seal haul-out area.

C. Fish: Anadromous salmonids: Coho salmon(FT) and Steelhead Trout (FSS).

- spawning runs(09-06)
- juveniles/smolts(02-08)

**ARCHAEOLOGICAL CONCERNS:**

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

|                                                |                |
|------------------------------------------------|----------------|
| Ca. DFG, Fort Bragg                            | (707) 964-9078 |
| Greg Grantham, College of the Redwoods         | (707) 961-1001 |
| Ca. State Parks, Mendocino District HQ         | (707) 961-1001 |
| National Marine Fisheries Service, Joe Cordaro | (310) 980-4017 |
| Mendocino County Sheriff's Dept. (24 hr.)      | (707) 463-4086 |
| Ca DFG - OSPR Dispatch (24 hr.)                | (916) 445-0045 |

# INLET SKETCH MAP

GREENWOOD CREEK

Inlet Name INLET, CA.

Recorder(s) MOH/TMH

Date/Time 11 NOV. 1992, 0700

Tide Stage HIGH @ 1026 (46.3), ARCHA T010T

Inlet Classification D

## CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

## LEGEND

—XXXXXXX—

Recommended  
Oil-Catchment Area

⌞ ⌞

Salt-Water Marsh

☼

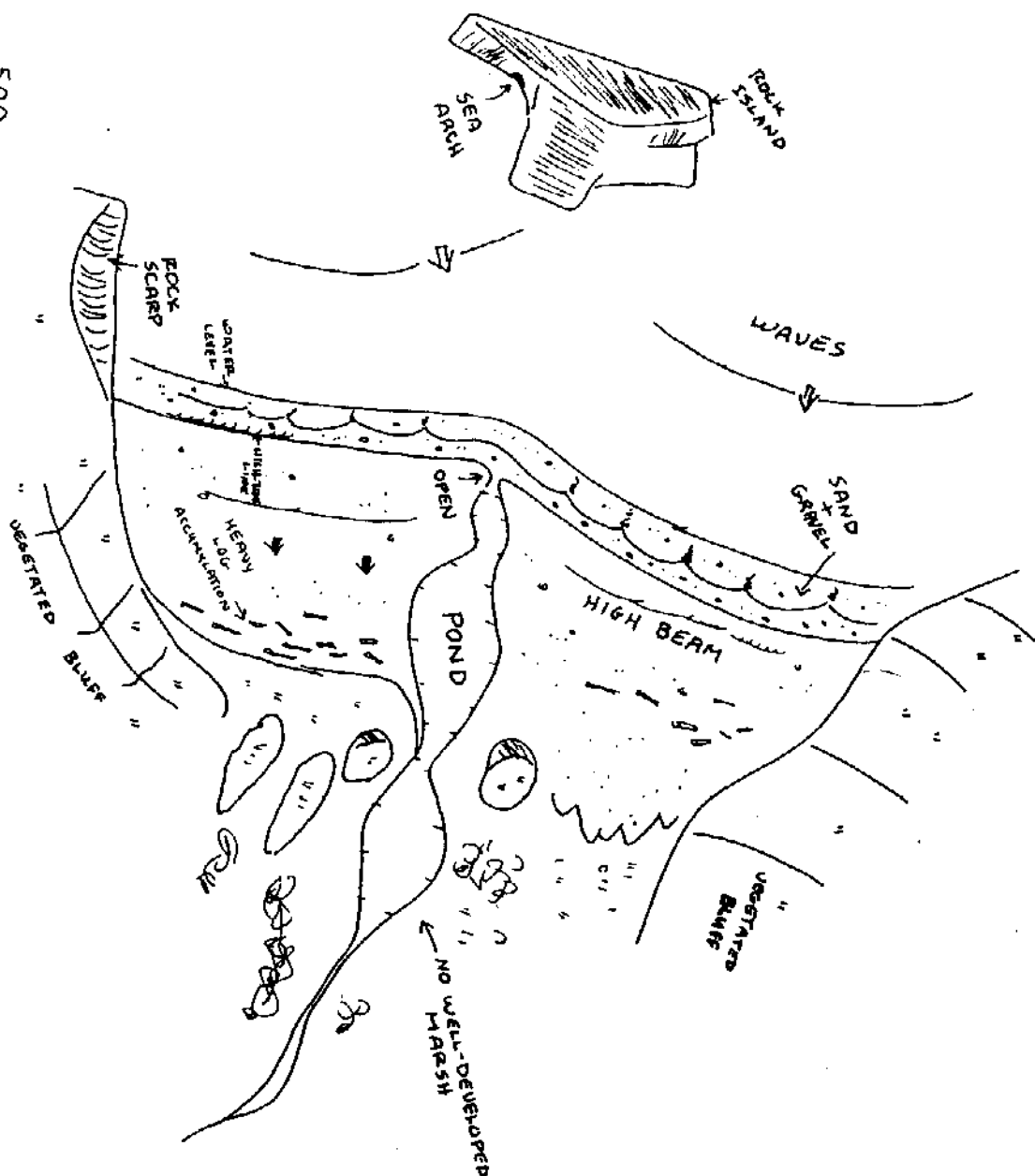
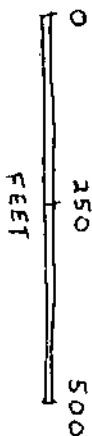
Fresh-Water Marsh

→ →

High-Tide  
Overwash Zone

~~~~~

Last High-Tide
Swash Line



MAP 035

NC-090-B

NC-091-A

Elk Creek
+123.7
38.1

Bridgeport Landing (Site)

Mills Creek

Mallo Pass Creek

NC-092-C

MENDOCINO CO.

NC-093-B

Alder Creek
+123.7
38.0



ENVIRONMENTAL SENSITIVITY RANKING

(A)
(B)
(C)

- First Priority
- Second Priority
- Third Priority

Last Update July, 1993



SEASONALITY

SCALE = 1:54179

0 1 2 MILES

ALBERS PROJECTION, NORTH AMERICAN DATUM OF 1983

E-V-205

Change #1



INDEX MAP



This map includes USGS quad sheets of Mallo Pass Creek

The comparable NOAA nautical chart is "Point Arena to Trinidad Head"

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SITE SUMMARY SHEET

SITE: NC-090-B Bonee Gulch

OSPR Map #: 035

County: Mendocino

USGS 7.5' Quad. name: Mallo Pass Ck

NOAA Chart: 18620, 18626

Lat/Long: 39 06'/123 42'30"

Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. hwy 101 to State Route 128 just north of Cloverdale. Follow State Route 128 to State hwy 1. Bonee Gulch is south of Greenwood Creek/Cuffey's Cove area just off of State hwy 1. This site has no access. See General Site Description below.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Rocky bluffs and offshore rocks.

Response category 7. Conventional response is not realistic based upon current technology. *Extreme current *High energy shoreline *Offshore rocks

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: seabird colonies of primarily Brandt's and Pelagic Cormorants - >100 pairs of nesting birds

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Fort Bragg

(707) 964-9078

Greg Grantham, College of the Redwoods

(707) 961-1001

Ca. State Parks, Mendocino District HQ

(707) 961-1001

Mendocino County Sheriff's Dept. (24 hr.)

(707) 463-4086

Ca DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

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SITE SUMMARY SHEET

SITE: NC-091-A Elk Creek

OSPR Map #: 035

County: Mendocino

Lat/Long: 39 06'/123 42'30"

USGS 7.5' Quad. name: Mallo Pass Ck

Rev: 07/01/96

NOAA Chart: 18620

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. hwy 101 to State Route 128 just north of Cloverdale. Follow State Route 128 to Greenwood Road just north of Philo. Follow Greenwood Road to State hwy 1. Go south on State hwy 1 to M.P. 31.55. Permission for access through locked gate must be obtained from property owner (see below).

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Inlet to Elk Creek with a marsh system along margins of the channel.

Response category 4. Difficult access. Distance (20+ miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Extensive marsh system. Seabirds, Shorebirds, Waterfowl.

B. Fish: Anadromous salmonids: Coho salmon(FT) and Steelhead trout(FSS):

- spawning runs(09-06)
- juveniles/smolts(02-08)

ARCHAEOLOGICAL CONCERNS: _____

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Fort Bragg	(707) 964-9078
Greg Grantham, College of the Redwoods	(707) 961-1001
Ca. State Parks, Mendocino District HQ	(707) 961-1001
Property owner	(707) 877-3360
Mendocino County Sheriff's Dept. (24 hr.)	(707) 463-4086
Ca DFG - OSPR Dispatch (24 hr.)	(916) 445-0045

INLET SKETCH MAP

ELK CREEK

Inlet Name INLET, CA.

Recorder(s) MOH/TM

Date/Time 11 Nov. 1992, 0800

Tide Stage High (10.26 (+6.3)) POINT AREA

Inlet Classification C

CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

LEGEND

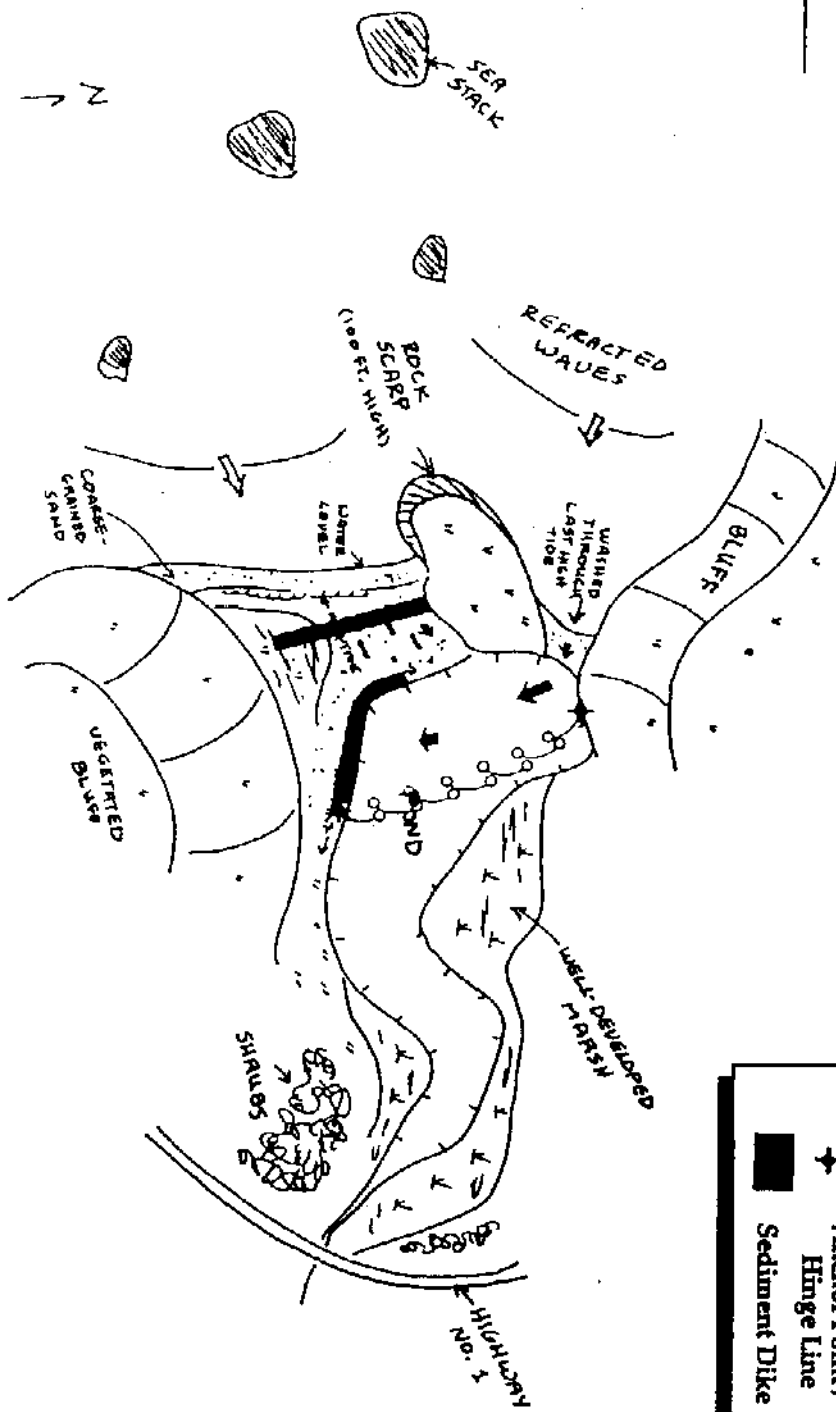
xxxxxxx
Recommended
Oil-Catchment Area

✓
Salt-Water Marsh

✓
Fresh-Water Marsh

→
High-Tide
Overwash Zone

~~~~~  
Last High-Tide  
Swash Line



**POTENTIAL PROTECTION STRATEGY (FLOOD TIDE)**

- Path Of Oil
- Deflection Boom
- Oil On Shoreline
- + Anchor Point / Hinge Line
- Sediment DiKE

## SITE SUMMARY SHEET

**SITE:** NC-092-C Irish Gulch

**OSPR Map #:** 035

**County:** Mendocino

**USGS 7.5' Quad. name:** Mallo Pass Ck

**NOAA Chart:** 18620

**Lat:** 39 01'30" N

**Long:** 123 41'30" W

**Rev:** 07/01/96

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. hwy 101 north to State Route 128 just north of Cloverdale. Follow State Route 128 to Mountain View Road at Boonville. Go left on Mountain View Road and follow to State hwy 1. Go north on State hwy 1. Exit W. from Hwy 1 at MP 25.47, onto a very narrow single lane road with sharp switchbacks. Exit the beach (road is marked) along a similar road that tends to have fewer turns. The exit is at MP 25.57. The exit road would serve as an access road for a front end loader or bulldozer. The access road is gated and a key must be obtained from Irish Gulch Vacation Rentals (Mr. William Moores) at about MP 25.37.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Seasonal inlet to Irish Gulch.

Response category 2. Easily accessed site. (20+ miles) from pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Shorebirds, Seabirds, Raptors

**ARCHAEOLOGICAL CONCERNS:** \_\_\_\_\_

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

|                                           |                |
|-------------------------------------------|----------------|
| Ca. DFG, Fort Bragg                       | (707) 964-9078 |
| Greg Grantham, College of the Redwoods    | (707) 961-1001 |
| Ca. State Parks, Mendocino District HQ    | (707) 961-1001 |
| Gordon Moores, Vacation Rentals Office    | (707) 882-2467 |
| Mendocino County Sheriff's Dept. (24 hr.) | (707) 463-4086 |
| Ca DFG - OSPR Dispatch (24 hr.)           | (916) 445-0045 |

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## SITE SUMMARY SHEET-OPA90

**SITE:** NC-093-B Alder Creek

**OSPR Map #: 035**

**County:** Mendocino

**Lat/Long:** 39 00'30"/123 42'

**USGS 7.5' Quad. name:** Mallo Pass

**Rev:** 07/01/96

**NOAA Chart:** 18640

**DIRECTIONS TO SITE AND ACCESS INFORMATION:** (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 N. to state route 128 just N. of Cloverdale. Follow state route 128 to Mountain View Road and follow to state Hwy 1. Go N. on Hwy 1 and take the first road S. of Alder Creek Bridge (MP 22.50). Follow road about 1 mile to creek mouth. Either side of creek easily accessible by heavy machinery.

**GENERAL SITE DESCRIPTION:** (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Seasonal inlet to Alder Creek with a small marsh along the creek. San Andreas Fault is on this area and runs into the ocean.

Response category 2. Easily accessed site. (20+ miles) from pre-staged equipment.

**BIOLOGICAL CONCERNS:** (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Seabirds, Shorebirds, Waterfowl, Wading birds juvenile gulls, Caspian Terns.

B. Fish: Anadromous salmonids: Coho salmon(FT) and Steelhead Trout (FSS).

- spawning runs(09-06)
- juveniles/smolts(02-08)

**ARCHAEOLOGICAL CONCERNS:**

**TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:**

Ca. DFG, Fort Bragg

(707) 964-9078

Ca. State Parks, Mendocino Dist. HQ

(707) 961-1001

College of the Redwoods, Greg Grantham

(707) 961-1001

Mendocino County Sheriff's Dept. (24 hr.)

(707) 463-4086

Ca DFG - OSPR Dispatch (24 hr.)

(916) 445-0045

# INLET SKETCH MAP

ALDER CREEK

Inlet Name INLET, CA.

Recorder(s) MOH/THM

Date/Time 11 Nov. 1991, 0700

Tide Stage HIGH (10.26 (+4.3)) POINT

Inlet Classification D

## CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

## LEGEND

-----xxxxxxx-----

Recommended  
Oil-Catchment Area

~ ~ ~

Salt-Water Marsh

~ ~ ~

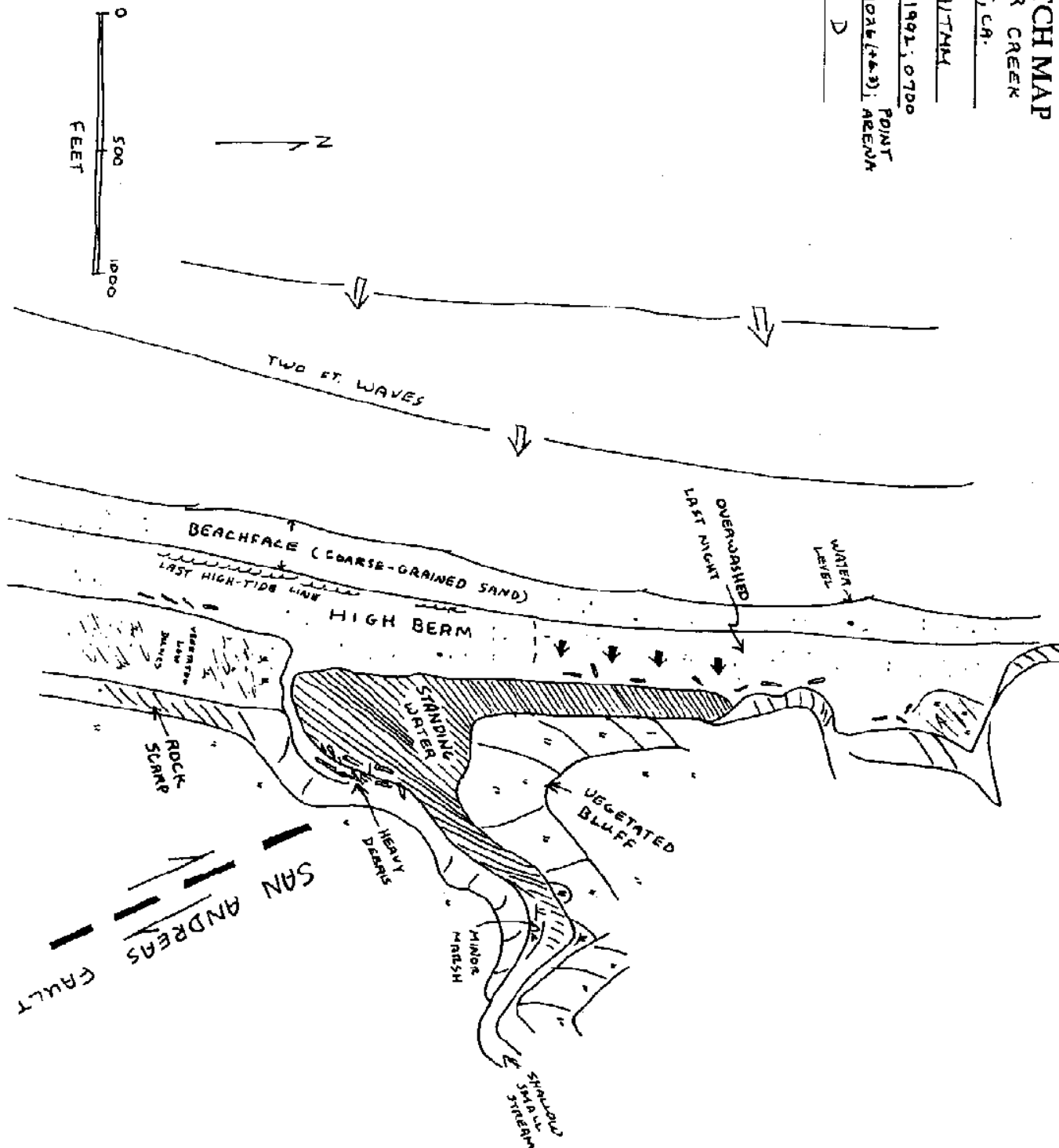
Fresh-Water Marsh

→ →

High-Tide  
Overwash Zone

~~~~~

Last High-Tide
Swash Line



MAP 036

NC-094-B
NC-095-A

Point Arena

Sea Lion
Rocks

Flumeville

Point Arena Creek

Point Arena

123.7
38.0

Moat Creek

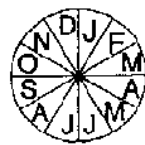
MENDOCINO CO.



ENVIRONMENTAL SENSITIVITY RANKING

- (A) - First Priority
- (B) - Second Priority
- (C) - Third Priority

Last Update July, 1993



SEASONALITY

SCALE = 1:52113

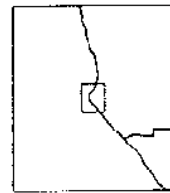
0 1 2 MILES

ALBERS PROJECTION - NORTH AMERICAN DATUM OF 1927

E-V-215 change #1



INDEX MAP



This map includes USGS quad sheets of Point Arena

The comparable NOAA nautical chart is "SF to Point Arena"

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SITE SUMMARY SHEET

SITE: NC-094-B Point Arena

OSPR Map #: 036

County: Mendocino

Lat/Long: 38 57'30"/123 44'

USGS 7.5' Quad. name: Mendocino

Rev: 07/01/96

NOAA Chart: 18640

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

Take U.S. Hwy 101 N. to state route 128 just N. of Cloverdale. Follow state route 128 to Mountain View Road and follow to state Hwy 1. Go S. on Hwy 1 Turn right onto Lighthouse Road. This road runs along the bluffs near the ocean. Beach access is not possible. The Lighthouse grounds area open from 11:00 to 14:30. Check the Coastal Resource Guide for contacts to access grounds at other times.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Rocky headlands and offshore rocks.

Response category 2. Easily accessed site. (20+ miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Seabird colonies primarily Pigeon Guillemots and Pelagic Cormorants.

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Fort Bragg	(707) 964-9078
Ca. State Parks, Mendocino Dist. HQ	(707) 961-1001
College of the Redwoods, Greg Grantham	(707) 961-1001
Mendocino County Sheriff's Dept. (24 hr.)	(707) 463-4086
Ca DFG - OSPR Dispatch (24 hr.)	(916) 445-0045

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SITE SUMMARY SHEET

SITE: NC-095-A **Garcia River and
Manchester State Beach**

OSPR Map #: 036

County: Mendocino
USGS 7.5' Quad. name: Point Arena
NOAA Chart: 18640

Lat/Long: 38 57'30"/123 44'
Rev: 07/01/96

DIRECTIONS TO SITE AND ACCESS INFORMATION: (Hwy no., street name, foot, vehicles, 4WD, Heavy equipment, Boats, permits, phone no's, etc.)

From U.S. Hwy 101, go North to State Hwy 128, just N. of Cloverdale. Follow state Hwy 128 to Mountain View Road in Boonville. Go west (left turn) on Mountain View Road to state Hwy 1. Go South on state hwy 1 to Stoneboro Rd (note coastal access sign at intersection) and turn west. Continue to parking lot. Continue on foot, across dunes, to beach. Walk south on the beach (appx 1 mile) to the mouth of the Garcia River.

To get to Hunters Lagoon, walk north on the beach for about 0.5 miles from the parking lot on Stoneboro Road.

To get to Brush Creek, take Kinney road (about .5 miles north of the town of Manchester) west from state hwy 1 to it's end near the beach. Walk across the dunes to the creek.

To get to Davis Lake, go west from state hwy 1 on the same access road as Alder Creek (NC-093-B). Immediately after exiting state hwy 1, note a south turning (left) road closed by a locked gate. This road leads to Davis Lake, about .5 mile. Cal State Parks has a key.

GENERAL SITE DESCRIPTION: (habitats/terrain, dominant substrate types, exposure, quantity & quality of debris, presence of oil, oceanographic data, facilities, etc.)

Tidal inlet to the Garcia River and seasonal tidal inlets to Brush Creek, Hunters Lagoon, and Davis Lake. About 1.5 miles of sandy beach ranging from fine to coarse.

Response category 4. Difficult access. Distance (20+ miles) from pre-staged equipment.

BIOLOGICAL CONCERNS: (Species, Seasons or month, Condition - eg breeding, nesting, haulout, etc.)

A. Birds: Seabirds, Shorebirds, Waterfowl Caspian Terns, Pelagic Cormorants, Black Oyster Catchers, Pigeon Guillemots.

B. Fish: Tidewater Gobies (FE) (1-12) have been noted in Hunters Lagoon. Anadromous salmonids: Coho salmon(FT) and Steelhead trout(FSS):

- spawning runs(09-06)
- juveniles/smolts(02-08)

ARCHAEOLOGICAL CONCERNS:

TRUSTEE AGENCY/MANAGER AND LOCAL EXPERTS:

Ca. DFG, Fort Bragg	(707) 964-9078
Ca. State Parks, Mendocino Dist. HQ	(707) 961-1001
Mendocino County Sheriff's Dept. (24 hr.)	(707) 463-4086
Ca DFG - OSPR Dispatch (24 hr.)	(916) 445-0045
College of the Redwood, Greg Grantham	(707) 961-1001

INLET SKETCH MAP

GARCIA RIVER

Inlet Name INLET, CA.

Recorder(s) MOH/TMH

Date/Time 10 Nov. 1992, 1720

Tide Stage LOW 21654 (-0.6); POINT ARENA

Inlet Classification C

CHECKLIST

- ☒ North Arrow
- ☒ Scale
- ☒ High-Tide Line
- ☒ Low-Tide Line
- ☒ Substrate Type

LEGEND

XXXXXXX

Recommended
Oil-Catchment Area

✓

Salt-Water Marsh

8

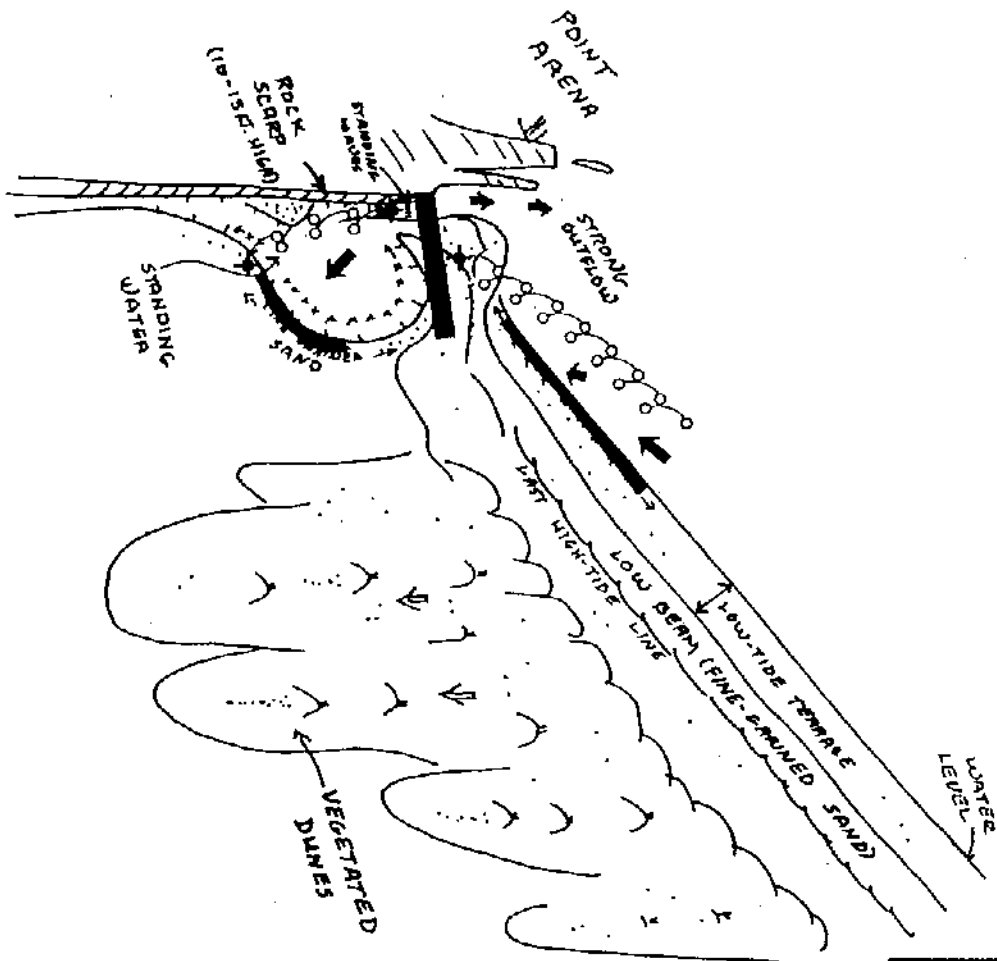
Fresh-Water Marsh

→

High-Tide
Overwash Zone

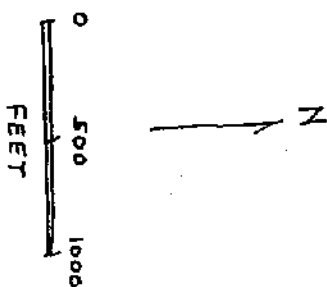
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Last High-Tide



**POTENTIAL PROTECTION STRATEGY (FLOOD TIDE)**

- Path Of Oil
- Deflection Boom
- Oil On Shoreline
- + Anchor Point / Hinge Line
- Sediment Dike



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